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PTO-1590 (8-01)

8436/ SEARCH REQUEST FORM

Access DB# _____

Scientific and Technical Information Center

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Requester's Full Name:	ong Liy	Examiner #: Date: 1/15/03 Serial Number: 09/669, =98		
Art Unit: /629 Phone I	Number 30 6 58 19	Serial Number: <u>09/669, >98</u>		
Mail Box and Bldg/Room Location	1: <u>460/</u> Res	sults Format Preferred (circle): PAPER DISK E-MAIL		
If more than one search is subm				
Please provide a detailed statement of the	search topic, and describe	e as specifically as possible the subject matter to be searched.		ŕ
Include the elected species or structures, k	teywords, synonyms, acro that may have a special n	onyms, and registry numbers, and combine with the concept or neaning. Give examples or relevant citations, authors, etc, if		
Title of Invention:				
Inventors (please provide full names):				
		,		
Earliest Priority Filing Date:				
For Sequence Searches Only Please include appropriate serial number.	te all pertinent information	(parent, child, divisional, or issued patent numbers) along with the		,
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	J	Point of Contact: Barb O'Bryen	•	`:
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		Technical Information Operation STIC CM1 6A05 308-4291		
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STAFF USE ONLY	Type of Search	Vendors and cost where applicable		1
Searcher:	NA Sequence (#)	stn494_	•	
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Searcher Phone #:	AA Sequence (#)	Dialog		
Searcher Location:	Structure (#) 3	Questel/Orbit		
Date Searcher Picked Up:	Bibliographic	Dr.Link		
Date Completed:	Litigation	Lexis/Nexis		
Searcher Prep & Review Time: 35	Fulltext	Sequence Systems		
Clerical Prep Time:	Patent Family	WWW/Internet		
Online Time: 24	Other	Other (checifu)	2	160

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=> fil reg; d stat que 119; fil capl; d que nos 120 FILE 'REGISTRY' ENTERED AT 15:50:51 ON 17 JAN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 JAN 2003 HIGHEST RN 479347-08-5 DICTIONARY FILE UPDATES: 16 JAN 2003 HIGHEST RN 479347-08-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

557855 SEA FILE=REGISTRY ABB=ON 46.156.1/RID - all structures containing & 1.8 L10 416976 SEA FILE=REGISTRY ABB=ON L8 AND NR>2 L12

Hy @8

VPA 8-2/3/4 U NODE ATTRIBUTES: 7 - Leterocycle at 7 8 - Leterocycle at 8 13 MITED DEFAULT MLEVEL IS ATOM IS UNS AT GGCAT IS MCY AT GGCAT DEFAULT ECLEVEL IS LIMITED monocyclic

ECOUNT IS M1 N AT

heterocycle at 8
has at least
I nitrogen GRAPH ATTRIBUTES: RSPEC I NUMBER OF NODES IS

full file search done against

/RID answer set, looking

for over lap by of these 2 structures

STEREO ATTRIBUTES: NONE L13 STR

REP G1 = (1-2) A VPA 9-2/3/4 U NODE ATTRIBUTES:

A: any non-hydrogen atom (5 or 6 - menubered heterocycle)

```
DEFAULT MLEVEL IS ATOM
         IS UNS AT 7
GGCAT
DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS
STEREO ATTRIBUTES: NONE
             1406 SEA FILE=REGISTRY SUB=L10 SSS FUL (L12 AND L13)
L17
                        Hy 08
                                   Hy @9
                                             Hy @10
                                                      Hy 011
                                                               Hy @12
                                                                            Hy @13
  Hy @14
            Hy @15
                      Hy @16
                                Ну @17
                                           Hy @18
                                                     Hy @19
                                                              Ну @20
                                                                          Hy @21
  Hy @22
            Hy @23
                      Hy @24
                                 Hy @25
                                           Hy @26
VAR G1=9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26 - represent definitions

VPA 8-2/3/4 U

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY AT 8
GGCAT
         IS MCY
                   AT
GGCAT
         IS PCY
                                              may = monocyclic
pay = polyayalic
uns = unsaturated
log = only one hetero atom
                   LOO
                         UNS AT
GGCAT
         IS MCY
                   UNS
                         AT
                             10
GGCAT
         IS PCY
                   UNS
                         AΤ
                             11
GGCAT
         IS MCY
                   UNS
                         AT
                             12
GGCAT
         IS MCY
                   UNS
                         AT
                             13
GGCAT
         IS MCY
                   UNS
                         AT
                             14
GGCAT
         IS MCY
                   UNS
                         AT
                             15
GGCAT
         IS PCY
                   UNS
                         AT
                             16
GGCAT
         IS MCY
                   UNS
                         AT
                             17
GGCAT
         IS MCY
                   UNS
                         ΑT
                             18
GGCAT
         IS MCY
                   UNS
                         ΑT
GGCAT
         IS MCY
                   UNS
                         AT
GGCAT
         IS MCY
                   UNS
                         AΤ
GGCAT
         IS PCY
                   UNS
                         AT
GGCAT
         IS PCY
                   UNS
                              23
                         AT
GGCAT
         IS MCY
                   UNS
                         AT
GGCAT
         IS PCY
                   UNS
                         AT
GGCAT
         IS PCY
                   UNS
                         AT
DEFAULT ECLEVEL IS LIMITED
ECOUNT
         IS M1 N
                    AΤ
ECOUNT
         IS E8 C
                    El N AT
                                              · element counts
         IS M3-X4 C E2 N AT
ECOUNT
ECOUNT
         IS E7 C
                    E2 N AT
                    E1-N
                          E1 0
                                                    X = maximum
         15-E3-C
                                       14
```

ECOUNT

ECOUNT

ECOUNT

ECOUNT

IS E3 C

IS E6 C

IS E2 C

IS E2 C

E1 N

E2 N

E2 N

E3 N

E1 S

E1 0

E1 0

AT

ΑT

ΑT

18

15

16

17

```
ECOUNT IS E4 C E1 O AT
                         19
      IS E4 C
ECOUNT
              E1 S
                    AT
                         20
      IS E4 C
              E1 N AT
                         21
ECOUNT
      IS E8 C
              E1 O AT
                        22
ECOUNT
      IS E6 C
              E2 N E1 S AT
                              23
ECOUNT
              E2 N E1 S AT
ECOUNT IS E2 C
                              24
ECOUNT IS E6 C E3 N AT 25
ECOUNT IS E5 C E2 N E1 S AT
                              26
```

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L19 484 SEA FILE=REGISTRY SUB=L15 SSS.FUL L17

100.0% PROCESSED 1406 ITERATIONS

484 ANSWERS

SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 15:50:51 ON 17 JAN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 17 Jan 2003 VOL 138 ISS 4 FILE LAST UPDATED: 16 Jan 2003 (20030116/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
L8
         557855 SEA FILE=REGISTRY ABB=ON
                                           46.156.1/RID
L10
         416976 SEA FILE=REGISTRY ABB=ON L8 AND NR>2
L12
                STR
L13
                STR
L15
           1406 SEA FILE=REGISTRY SUB=L10 SSS FUL (L12 AND L13)
L17
                STR
            484 SEA FILE=REGISTRY SUB=L15 SSS FUL L17
T.19
L20
             58 SEA FILE=CAPLUS ABB=ON L19
```

=> d ibib abs hitstr 120 1-58; fil cao; d que nos 122; fil hom

L20 ANSWER 1 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:814288 CAPLUS

DOCUMENT NUMBER:

137:325411

TITLE:

Thiazole and other heterocyclic ligands for mammalian dopamine, muscarinic and serotonin receptors and

Searched by Barb O'Bryen, STIC 308-4291

the head

Page 3

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INVENTOR(S):
```

transporters

Cuny, Gregory D.; Hauske, James R.; Heffernan, Michele

L.; Holland, Joanne M.; Persons, Paul E.; Radeke,

Heike

PATENT ASSIGNEE(S):

SOURCE:

Sepracor, Inc., USA PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:
FAMILY ACC. NUM.

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002083863 A2 20021024 WO 2002-US11692 20020412

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO: US 2001-284159P P 20010417

US 2001-313648P P 20010820

OTHER SOURCE(S):

MARPAT 137:325411

GΙ

$$R^{4}ZCHR^{3}(CHR^{3})_{m}NR^{1}$$
 X
 Y
 R^{2}
 $(CH_{2})_{p}$
 $(CH_{2})_{n}$
 W

AB Title compds. I [W = CH2, O, NR; X = O, S; Y = CR5, N; Z = NR6, O; R, R1, R4 = H, alkyl; R2 = aryl, heteroaryl; R3 = H, alkyl, alkoxy, alkylamino; R5 = H, alkyl, halogen; R6 = H, alkyl, aryl, aralkyl; R1R3, R1R4, R3R4, R3R6, R4R6 = bond; m, n = 0-3; p = 1-3] and their stereoisomers were prepd. for use as ligands for various mammal-ham collaborations.

depression, sexual dysfunction, hypertension, migraine, Alzheimer's disease, obesity, emesis, psychosis, analgesia, schizophrenia, Parkinson's disease, restless leg syndrome, sleeping disorders, attention deficit hyperactivity disorder, irritable bowel syndrome, premature ejaculation,

menstrual dysphoria syndrome, urinary incontinence, inflammatory pain, neuropathic pain, Lesche-Nyhane disease, Wilson's disease, Tourette's syndrome, psychiatric disorders, stroke, senile dementia, peptic ulcers, pulmonary obstruction disorders, and asthma. Thus, the acid II [R7 = OH] was converted to II [R7 = CH2Cl] and treated with Et2N(CH2)3NHCSNH2 to give the thiazole III. III had IC50 for 5-HT2c receptor binding <100 nM and d3 receptor binding <1000 nM.

I. T473706-63-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(thiazole and other heterocyclic ligands for mammalian dopamine, muscarinic and serotonin receptors and transporters)

RN 473706-63-7 CAPLUS

> 1,4'-Bipiperidine, 1'-[4-[1-(4-chlorophenyl)cyclohexyl]-2-thiazolyl]-(9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2003 ACS ANSWER 2 OF 58

ACCESSION NUMBER:

2002:754380 CAPLUS

DOCUMENT NUMBER:

137:263071

TITLE:

CN

Preparation of trisubstituted 2,4,6-

triamino[1,3,5]triazines as anti-telomerase agents

INVENTOR(S):

Mailliet, Patrick; Laoui, Abdelazize; Riou, Jean-Francois; Doerflinger, Gilles; Mergny, Jean-Louis; Hamy, Francois; Caulfield, Thomas

PATENT ASSIGNEE(S): Aventis Pharma S.A., Fr.

SOURCE:

PCT Int. Appl., 208 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT	NO.		KI	ND	DATE			A:	PPLI	CATI	ON NO	Ο.	DATE				
									_									
WO	2002	0769	75	A	1	2002	1003		W	2 O	02-F	R100	5	2002	0322			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	OM,	PH,	
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	
		UA,	UG,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,	
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	\mathtt{ML} ,	MR,	NE,	SN,	TD,	TG	
FR	2822	468		Α	1	2002	0927		F	R 20	01-3	916		2001	0323			
PRIORITY	Y APP	LN.	INFO	. :					FR 2	001-	3916		Α	2001	0323			
									FR 2	001-	1037	0	Α	2001	2080			
OTHER SC	DURCE	(S):			MAR	PAT	137:	2630	71									

GΙ

AB Title compds. I [A = XR1R2; X = N, O, S, alkyl radical; R1-2 = H, alkyl, heterocyclyl, etc.; R3-3' = H, alkyl, isoquinolinyl, quinolinyl, etc.; Ar1-2 = (un)substituted Ph, etc., and derivs. thereof] were prepd. For instance, 2,4-bis[(4-(dimethylamino)-2-methylquinolin-6-yl)amino]-6-chloro[1,3,5]triazine (prior art) was reacted with N,N-dimethyl-1,3-propanediamine in DMF with K2CO3 for 15 h at 100.degree. to afford II. Examples include evaluation of all compds. of the invention for telomerase activity. I are anti-cancer agents.

ΙΙ

IT 462651-09-8P, 2-[[4-Dimethylamino-2-methylquinolin-6-yl]amino]-4[[4-dimethylamino-2-methylquinolin-6-yl]amino]-6-[3(pyrrolyl)piperidinyl]triazine

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of trisubstituted 2,4,6-triamino[1,3,5]triazines as anti-telomerase agents)

RN 462651-09-8 CAPLUS

CN

4,6-Quinolinediamine, N6,N6'-[6-[3-(1H-pyrrol-1-yl)-1-piperidinyl]-1,3,5-triazine-2,4-diyl]bis[N4,N4,2-trimethyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2002:717059 CAPLUS

DOCUMENT NUMBER:

137:247710

TITLE:

Preparation of aryl phenylheterocyclyl sulfides as

cell adhesion-inhibiting anti-inflammatory and

immune-suppressive agents

INVENTOR(S):

Wang, Gary T.; Wang, Sheldon; Gentles, Robert

PATENT ASSIGNEE(S):

SOURCE:

USA

U.S. Pat. Appl. Publ., 44 pp. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 2002132807 20020919 US 2001-888840 2.00.10.62-5 Α1

PRIORITY APPLN. INFO.:

US 2000-214983P P 20000629

OTHER SOURCE(S): MARPAT 137:247710

GI

$$R^1$$
 R^2
 R^3
 R^4
 R^2
 R^3
 R^4
 R^2
 R^3
 R^4
 R^3
 R^4
 R^2
 R^3
 R^4
 R^4

- AB The title compds. [I; R1-R5 = H, halo, alkyl, etc. (with proviso that at least one of R1 or R3 = (un)substituted pyridyl, pyrimidyl, oxazolyl, etc.); A = (un)substituted aryl, heterocyclyl] were prepd. for treating inflammatory and immune diseases, such as arthritis, asthma, reperfusion injury, inflammatory bowel disease etc. The products I had IC50 <20 .mu.M for inhibition of ICAM-1 binding to LFA-1. 2-Me2CHC6H4SH was etherified with 4,3-F(F3C)C6H3COMe, followed by bromination, and reaction with 1-carbamoylpiperidine to give the sulfide II.
- ΙT 388117-78-0P 388117-79-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

RN 388117-78-0 CAPLUS

CN

Pyrimidine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-6-[3-(1H-tetrazol-5-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 388117-79-1 CAPLUS

CN Pyrimidine, 4-[4-[(2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-6-[4-(1H-tetrazol-5-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

AO ANSWER 4 OF 58 CAPLUS COPYRIGHT 2003 ACS CCESSION NUMBER: 2002:615589 CAPLUS

DOCUMENT NUMBER:

137:169545

TITLE:

Preparation of 2-acylaminothiazole derivatives or

their salts as promoters of megakaryocyte colony

formation

INVENTOR(S):

Koshio, Hiroyuki; Kimizuka, Tetsuya; Sugasawa, Keizo; Watanuki, Susumu; Koga, Yuji; Nagata, Hiroshi; Suzuki,

Kenichi; Abe, Masaki

PATENT ASSIGNEE(S):

Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

1

LANGUAGE: FAMILY ACC. NUM. COUNT:

Japanese

PATENT INFORMATION:

PATENT NO. KIND DATE

APPLICATION NO. DATE

WO 2002062775

O, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

MARPAT 137:169545

GI

The title compds. [I; Ar = Ph or pyridinyl optionally substituted by AB .gtoreq.1 group(s) selected from lower alkyl, lower alkylcarbonyl, lower alkoxycarbonyl, HO, lower alkoxy, lower alkylcarbonyloxy, and halo; R1 = aryl or pyridyl optionally substituted by .gtoreq.1 group(s) selected from lower alkyl, lower alkylcarbonyl, lower alkoxycarbonyl, HO, lower alkoxy, lower alkylcarbonyloxy, and halo; R2 = H, OH, CO2H, lower alkyloxycarbonyl, mono- or di(lower alkyl)carbamoyl, amino, or cyclic amino, wherein more than 1 of R2 may be present; X = CH2, O, S, NR3; R3 = (un) substituted lower alkyl, cycloalkyl, (un) substituted aryl, (un) substituted aryl-lower alkyl, (un) substituted heteroaryl, (un) substituted heteroaryl-lower alkyl, lower alkylcarbonyl, lower alkoxycarbonyl, mono- or di(lower alkyl)carbamoyl] or pharmaceutically acceptable salts thereof are prepd. These compds. I have an activity of increasing platelets based on an excellent effect of accelerating megakaryocyte colony formation and are efficacious in treating thrombopenia. Thus, 680 mg 2-methoxyisonicotinic acid and 1.02 g 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride were added to a soln. of 1.60 g 2-amino-4-(4-fluorophenyl)-5-(4cyclohexylpiperazino)thiazole in 30 mL THF and stirred at room temp. for 4 days to give N-[5-(4-cyclohexylpiperazi-1-yl)-4-(4-fluorophenyl)thiazol-2yl]-2-methoxyisonicotinamide hydrochloride (II). II in vitro increased the formation of megakaryocyte colonies of human CD34+ cells from 5.2 at 0.3 .mu.M to 19.0 and 34.8 at 1.0 and 3.0 .mu.M, resp. 446065-96-9P, N-[5-(4-(Pyrrolidin-1-yl)piperidin-1-yl)-4-IT

phenylthiazol-2-yl]-3,5-dimethoxybenzamide hydrochloride

446065-97-0P, N-[5-(4-(Piperidin-1-yl)piperidin-1-yl)-4phenylthiazol-2-yl]-3,5-dimethoxybenzamide hydrochloride

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(prepn. of acylaminothiazole derivs. or salts as promoters of megakaryocyte colony formation for increasing blood platelets and treating thrombopenia)

RN 446065-96-9 CAPLUS

CN

Benzamide, 3,5-dimethoxy-N-[4-phenyl-5-[4-(1-pyrrolidinyl)-1-piperidinyl]-2-thiazolyl]-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

RN 446065-97-0 CAPLUS

CN Benzamide, N-(5-[1,4'-bipiperidin]-1'-yl-4-phenyl-2-thiazolyl)-3,5-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)

● HCl

IT 446065-39-0P, 2-Amino-5-[4-(pyrrolidin-1-yl)piperidin-1-yl]-4phenylthiazole 446065-40-3P, 2-Amino-5-[4-(piperidin-1yl)piperidin-1-yl]-4-phenylthiazole
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(prepn. of acylaminothiazole derivs. or saldts a

CAPILOS LO CAPILOS

CN 2-Thiazolamine, 4-phenyl-5-[4-(1-pyrrolidinyl)-1-piperidinyl]- (9CI) (CF INDEX NAME)

446065-40-3 CAPLUS RN

2-Thiazolamine, 5-[1,4'-bipiperidin]-1'-yl-4-phenyl- (9CI) (CA INDEX CN

REFERENCE COUNT:

60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 58 CAPLUS COPYRIGHT 2003 ACS 2002:615577 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

137:169536

TITLE:

Preparation of aryl-substituted tetrahydropyrimidines

and related compounds as melanocortin-4 receptor

binding compounds

INVENTOR(S):

Maguire, Martin P.; Dai, Mingshi; Vos, Tricia J.

Millennium Pharmaceuticals, Inc., USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 228 pp.

SOURCE:

CODEN: PIXXD2

Patent

DOCUMENT TYPE:

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT 1	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	Э.	DATE			
WO	2002	0627	66	A	2	2002	0815		W	20	02-U	s356	6	2002	0207		
WO	2002	0627	66	A	3	2002	1003										
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZM,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,
		ТJ,	TM														
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AT,	BE,	CH,
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
PRIORITY	APP:	LN.	INFO	. :	•	•			US 2	001-	7784	68	Α	2001	0207		
OTHER SO	OURCE	(S):			MAR	PAT	137:	1695	36								

AB Title compds. I [wherein A and B = independently (un) substituted biaryl, (hetero)aryl, Ph, (cyclo)alkyl, (cyclo)alkoxy, alkenyl, alkynyl, OH, acyl(oxy), carbamoyl, amino, thiol, amidino, imino, NO2, N3, etc.; L1 and .L2 =- covalent bond or (un) substituted alkyl optionally interrupted by O, S, or N; r = covalent bond, CH, CH2, CHR1, CR1R2, or H; t = CH, CH2, CHR3, CR3R4, or H; s = CHR5, CR5R6, or absent; R = H, (un)substituted alkyl, arylalkyl, or heteroalkyl, and may optionally be linked to A, B, L1, or L2; R1-R6 = independently (un) substituted alkyl, halo, thiol, thioether, thioalkyl, alkoxy, and may be optionally linked to each other to form addnl. ring moieties, e.g., quinoxalinyl; or pharmaceutically acceptable salts thereof] were prepd. as melanocortin-4 receptor binding (MC4-R) compds. For example, stirring a soln. of .alpha.-tolunitrile with diisopropylamine and BuLi in hexanes at -78.degree. under nitrogen for 1 h, followed by addn. of HMPA and 1-chloromethylnaphthalene in THF, afforded 2-(2-naphthalen-1-ylethyl)benzonitrile. Heating the benzonitrile with 1,3-diaminopropane in the presence of H2S at 80.degree. for 72 h gave the tetrahydropyrimidinyl cycloaddn. product II. The latter exhibited exemplary inhibition of MC4-R in a scintillation proximity assay. I are useful for the treatment of disorders assocd. with pigmentation, bones, or wt. loss (no data).

IT 326484-02-0P

CN

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(MC4-R binding compd.; prepn. of aryl-substituted tetrahydropyrimidines and related compds. as melanocortin-4 receptor binding compds. for treatment of pigmentation, bone, and wt. loss disorders)

RN 326484-02-0 CAPLUS

Pyrazine, 2-[1,4'-bipiperidin]-1'-yl-3-[[(5-bromo-2-methoxyphenyl)methyl]thio]- (9CI) (CA INDEX NAME)

ANSWER 6 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:487561 CAPLUS

DOCUMENT NUMBER: 137:63240

TITLE: Preparation of thiazolyl inhibitors of Tec family

tyrosine kinases

INVENTOR(S): Barrish, Joel C.; Das, Jagabandhu; Kanner, Steven B.;

Liu, Chunjian; Spergel, Steven H.; Witayk, John;

Doweyko, Arthur M. P.; Furch, Joseph A.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE:

PCT Int. Appl., 149 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	Э.	DATE			
WO	2002	0500	 71	A	 1	2002	0627		W	20	01-U	5494:	30	2001	1219		
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,
		US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM	
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑT,	BE,	CH,
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
AU	2002	0311	39	A	5	2002	0701		Αl	U 20	02-3	1139		2001	1219		
PRIORIT	Y APP	LN.	INFO	.:				1	US 20	000-	2578	30P	Ρ	2000	1221		
								1	WO 21	001-	US49	430	W	2001	1219		
OTHER S	OURCE	(S):			MAR	PAT	137:	6324	0								

OTHER SOURCE(S):

GI

ΙI

$$\begin{array}{c}
R^2 \\
N \longrightarrow Q^1 \\
Z \longrightarrow Q^2
\end{array}$$

The title compds. [I; Ql = thiazolyl; Q2 = (un)substituted (hetero)aryl; Z = O, S, NR4, etc.; R1 = H, OH, SH, etc.; R2, R3 = H, (un)substituted (hetero)aryl, (hetero)arylcarbonyl, etc.; R4 = H, alkyl, aryl, etc.], useful in the treatment of Tec family tyrosine kinase-assocd. disorders such as cancer, immunol. disorders and allergic disorders, were prepd. E.g., a multi-step synthesis of the thiazole II, was given.

IT 439576-65-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thiazolyl inhibitors of Tec family tyrosine kinases) 439576-65-5 CAPLUS

Piperazine, 1-acetyl-4-[2-methoxy-4-methyl-5-[[2-[[2-methyl-6-[4-(1-pyrrolidinyl)-1-piperidinyl]-4-pyrimidinyl]amino]-5-thiazolyl]thio]benzoyl]- (9CI) (CA INDEX NAME)

RN

CN

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2002:428741 CAPLUS DOCUMENT NUMBER: 137:10996

TITLE:

Combination of GABA agonists and sorbitol

dehydrogenase inhibitors Mylari, Banavara Lakshman

PATENT ASSIGNEE(S):

Pfizer Products Inc., USA PCT Int. Appl., 49 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ---------_____ A2 20020606 WO 2001-IB2213 20011119 WO 2002043762 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20020611 AU 2002-15159 AU 2002015159 Α5 20011119 US 2002091128 A1 20020711 US 2001-997038 20011129 US 2000-250069P P PRIORITY APPLN. INFO.: 20001130 WO 2001-IB2213 W 20011119

OTHER SOURCE(S):

MARPAT 137:10996

GΙ

Ι

AB This invention relates to pharmaceutical compns. comprising combinations of a GABA agonist, a prodrug thereof or a pharmaceutically acceptable salt of said GABA agonist or said prodrug and a SDI, a prodrug thereof or a pharmaceutically acceptable salt of said SDI or said prodrug, kits contg. such combinations and methods of using such combinations to treat mammals,

including humans, suffering from diabetic complications such as diabetic neuropathy, diabetic nephropathy, diabetic cardiomyopathy, diabetic retinopathy, diabetic microangiopathy, diabetic macroangiopathy, cataracts or foot ulcers. An example GABA agonist is gabapentin and example SDI is

IT 300548-76-9

> RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination of GABA agonists and sorbitol dehydrogenase inhibitors)

300548-76-9 CAPLUS RN

2-Pyrimidinemethanol, 4,4'-[4,4'-bipiperidine]-1,1'-diylbis[.alpha.-methyl-CN , (.alpha.R,.alpha.'R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

ANSWER 8 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:314757 CAPLUS

DOCUMENT NUMBER: 136:345787

TITLE: Combination of statins and sorbitol dehydrogenase

inhibitors

INVENTOR(S): Mylari, Banavara Lakshman PATENT ASSIGNEE(S): Pfizer Products Inc., USA SOURCE:

PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	A	PPLICATION	ON NO.	DATE	
	AG, AL, AM,		AZ, BA,	BB, BG,	BR, BY,	•	CH, CN,
em.	CR, CU, CZ,	DE, DR,	DM, DA,				
	ku, ku, sd,			SL, TJ,	TM, TR,	TT, TZ,	UA, UG,
· ·	UZ, VN, YU,	, ,					
	GM, KE, LS, DK, ES, FI,						
ВJ,	CF, CG, CI,	CM, GA,	GN, GQ,	GW, ML,	MR, NE,	SN, TD,	TG

Liu

20020429 AU 2001076645 Α5 AU 2001-76645 20010820 US 2000-241339P P PRIORITY APPLN. INFO.: . 20001018 WO 2001-IB1506 W 20010820

This invention relates to pharmaceutical compns. comprising combinations ABof a statin or it salt, a prodrug or the prodrug and a sorbitol dehydrogenase inhibitor, a prodrug or a salt of the sorbitol dehydrogenase inhibitor or the prodrug. Kits contg. such combinations and methods of using such combinations to treat mammals, including humans, suffering from arteriosclerosis and/or diabetic complications such as diabetic neuropathy, diabetic nephropathy, diabetic cardiomyopathy, diabetic retinopathy, diabetic microangiopathy, diabetic macroangiopathy, cataracts or foot ulcers are disclosed. The statins are administered in the following dosage amts.: e.g., atorvastatin 10-80 mg; simvastatin 10-40

IT 300548-76-9

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination of statins and sorbitol dehydrogenase inhibitors)

RN 300548-76-9 CAPLUS

2-Pyrimidinemethanol, 4,4'-[4,4'-bipiperidine]-1,1'-diylbis[.alpha.-methyl-CN (.alpha.R,.alpha.'R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

CAPLUS COPYRIGHT 2003 ACS

CCESSION NUMBER: DOCUMENT NUMBER:

2002:220574 CAPLUS 136:263158

TITLE:

Benzimidazolyl-substituted quinolinone derivatives and

analogs, with inhibitory action against vascular endothelial growth factor receptor tyrosine kinase,

and useful as anticancer agents

INVENTOR(S):

Renhowe, Paul; Pecchi, Sabina; Machajewski, Tim; Shafer, Cynthia; Taylor, Clarke; McCrea, Bill; McBride, Chris; Jazan, Elisa; Wernette-Hammond,

Mary-Ellen; Harris, Alex

PATENT ASSIGNEE(S):

Chiron Corporation, USA PCT Int. Appl., 207 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

SOURCE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

GΙ

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PATENT NO.
                                     KIND DATE
                                                                         APPLICATION NO. DATE
                                     ____
        WO 2002022598
                                      Α1
                                                20020321
                                                                         WO 2001-US42131 20010911
        WO 2002022598
                                      C1
                                                20021121
                     AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
               PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
                      BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                      A5
        AU 2001093275
                                                20020326
                                                                         AU 2001-93275
                                                                                                       20010911
        US 2002107392
                                                20020808
                                                                          US 2001-951265
                                       A1
                                                                                                       20010911
PRIORITY APPLN. INFO.:
                                                                    US 2000-232159P P
                                                                                                       20000911
                                                                    WO 2001-US42131 W 20010911
OTHER SOURCE(S):
                                       MARPAT 136:263158
```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. of formulas I and II are provided [for I: Z = O, S, AB (un) substituted NH; Y = certain OH derivs., CHO, esters and amides of CO2H, certain NH2 derivs.; R1-R4 = H, halo, cyano, NO2, OH or derivs., NH2 or derivs., (un) substituted amidinyl, guanidinyl, alk(en/yn)yl, aryl, heterocyclyl, CHO, CO2H and esters and amides; R5-R8 = H, halo, NO2, OH or derivs., NH2 or derivs., SH or derivs., cyano, etc.; R9 = H, OH, (un) substituted alkoxy or aryloxy, NH2 or derivs., (un) substituted alkyl or aryl, CHO, alkanoyl, aroyl; for II: A, B, D, E = C or N, with at least one being N; Y = H, OH or derivs., SH or derivs., NH2 or derivs., cyano, various acyl groups, (un)substituted alk(en/yn)yl, aralkyl, heterocycloalkyl, aryl, etc.; R1-R8 = H, halo, NO2, cyano, OH or derivs., NH2 or derivs., acyl, SH or derivs., etc.; R9 = H, OH, (un)substituted alkoxy, aryloxy, NH2 or derivs., aryl, CHO, alkanoyl, aroyl]. Also provided are pharmaceutical formulations including the compds. or their pharmaceutically acceptable salts and a pharmaceutically acceptable carrier, which may be prepd. by mixing the compds. or salts with a carrier and water. A disclosed method of treating a patient includes administering a pharmaceutical formulation according to the invention to a patient. Claims include tautomers of the compds., pharmaceutically acceptable salts, and pharmaceutically acceptable salts of the tautomers. I and II are inhibitors of receptor tyrosine kinases, and particularly of vascular endothelial growth factor receptor (VEGFR) tyrosine kinase. As such, they are inhibitors of angiogenesis, and thereby act as anticancer agents. Approx 270 invention compds. are listed, with detailed prepns. given for about 50 compds. Several general preparatory methods are discussed in detail. For instance, cyclocondensation of Et 2-(benzimidazol-2-yl)acetate with the corresponding ortho-amino nitrile (prepns. given), carried out in refluxing ClCH2CH2Cl in the presence of SnCl4, gave the invention quinolinone LLI. Mar

405168-77-6P, 4-Amino-3-[6-(1,4'-bipiperidin-1'-yl)-1H-benzimidazol-2-yl]quinolin-2(1H)-one
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(drug candidate; prepn. of benzimidazolyl-substituted quinolinone derivs. and analogs as VEGFR tyrosine kinase-inhibiting anticancer

405168-77-6 CAPLUS RN

CN 2(1H)-Quinolinone, 4-amino-3-(5-[1,4'-bipiperidin]-1'-yl-1H-benzimidazol-2-(CA INDEX NAME) y1)-(9CI)

REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS ANSWER 10 OF 58 2002:116954 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

137:134461

TITLE:

Synthesis and Anti-Angiogenic Activity of 6-(1,2,4-Thiadiazol-5-yl)-3-amino pyridazine

Derivatives

AUTHOR(S):

Bongartz, Jean-Pierre; Stokbroekx, Raymond; Van der Aa, Marcel; Luyckx, Marcel; Willems, Marc; Ceusters, Marc; Meerpoel, Lieven; Smets, Gerda; Jansen, Tine; Wouters, Walter; Bowden, Charlie; Valletta, Lisa;

Herb, Mark; Tominovich, Rose; Tuman, Robert

CORPORATE SOURCE:

SOURCE:

Janssen Research Foundation, Beerse, B-2340, Belg. Bioorganic & Medicinal Chemistry Letters (2002),

12(4), 589-591

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

General screening for inhibitors of microvessel growth in vitro in the rat aortic ring assay led to the discovery of a novel series of thiadiazole pyridazine compds. with potential anti-angiogenic activity. Chem. optimization produced orally active compds. with potent in vitro and in vivo anti-angiogenesis and anti-tumor and anti-metastatic activities.

193957-14-1P 445018-39-3P

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and anti-angiogenic activity of (thiadiazolyl)amino pyridazine derivs. in relation to antitumor activity and ocular toxicity)

193957-14-1 CAPLUS RN

Pyridazine, 3-(1,2,4-thiadiazol-5-yl)-6-[4-[4-[3-(trifluoromethyl)phenyl]-CN 1-piperazinyl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

445018-39-3 CAPLUS RN

1,2,4-Thiadiazol-3-amine, N,N-dimethyl-5-[6-[4-[4-[3-CN (trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]-3-pyridazinyl]-(9CI). (CA INDEX NAME)

REFERENCE COUNT:

9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

60 ANSWER 11 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2002:31429 CAPLUS

DOCUMENT NUMBER:

136:102394

TITLE:

Aryl phenylheterocyclyl sulfide derivatives and their use as cell adhesion-inhibiting anti-inflammatory and

immune-suppressive agents

INVENTOR(S):

Wang, Gary T.; Wang, Sheldon; Gentles, Robert

PATENT ASSIGNEE(S):

SOURCE:

Abbott Lab., USA PCT Int. Appl., 135 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	ENT !	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	Э.	DATE			
										_								
	WO	2002	0025	39	A	1	2002	0110		W	20°	01-U	S201:	28	2001	0622		
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
			co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	ΜA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	UZ,
			VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM			
		RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG		
	ΑU	2001	0687	18	A.	5	2002	0114		A	J 20	01-6	8718		2001	0622		
PRIOR	ITY	APP:	LN.	INFO	. :				1	US 2	-000	6067	17	A	2000	0.62.9		

OTHER SOURCE (SV

AB Title compds. were prepd. for treating inflammatory and immune diseases, such as arthritis, asthma, reperfusion injury, inflammatory bowel disease etc. The products had IC50 <20 mM for inhibition of ICAM-1 binding to LFA-1. 2-Me2CHC6H4SHwas etherified with 4,3-F(F3C)C6H3COMe, followed by bromination, and reaction with 1-carbamoylpiperidine to give the sulfide T.

IT 388117-78-0P 388117-79-1P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aryl phenylheterocyclyl sulfides as cell adhesion-inhibiting antiinflammatory and immunosuppressive agents)

RN 388117-78-0 CAPLUS

CN Pyrimidine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-6-[3-(1H-tetrazol-5-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 388117-79-1 CAPLUS

CN Pyrimidine, 4-[4-[[2-(1-methylethyl)phenyl]thio]-3-(trifluoromethyl)phenyl]-6-[4-(1H-tetrazol-5-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2001:936092 CAPLUS

8

DOCUMENT NUMBER:

136:53752

Page 22

TITLE: Synthesis and use of mono-, di- and triethanolamine

salts of zopolrestat alone and in combination with

(e.g.) NHE-1 inhibitors Mylari, Banavara L.

INVENTOR(S): PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 41 pp.

CODEN: USXXCO

Ι

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

GI

PA	rent :	NO.		KII	ND	DATE			A	PPLI	CATI	ON NO	Э.	DATE			
	2001			A:	_	2001			•				-	2001			
WO	2002	0984:	29	A.	1	2002	1212		W	0 20	01-I	B103	1	2001	0607		
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,
		RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,
		UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
	RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	ΙT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG		
PRIORIT	Y APP	LN.	INFO	.:				1	US 2	000-	1830	04P	Ρ	2000	0216		
								1	US 2	001-	7827	98	Α	2001	0213		

our and triethanolamine salts of [4-0xo-(5trifluoromethylbenzothiazol-2-ylmethyl)-3,4-dihydrophthalazin-1-yl]acetic acid (zopolrestat; I) were prepd. E.g., a soln. of I in acetone was added to ethanolamine (10 mol equiv, room temp., 1 h) which afforded, after purifn., the ethanolamine salt in 95% yield, m.p. 119 - 121.degree.C.

Ethanolamine salts of I are used alone or with NHE-1 inhibitors (e.g. II), selective serotonin reuptake inhibitors (SSRIs, e.g. fluoxetine), glycogen phosphorylase inhibitors (GPIs), sorbitol dehydrogenase inhibitors (SDIs) and antihypertensive agents for treating diabetic complications. 300548-76-9, 1(R)-[4-[1'-[2-(1(R)-Hydroxyethyl)pyrimidin-4-yl]-IT [4,4']bipiperidinyl-1-yl]pyrimidin-2-yl]ethanol RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination pharmaceutical; synthesis and use of mono-, di- and triethanolamine salts of zopolrestat alone and in combination with (e.g.) NHE-1 inhibitors) RN ·300548-76-9 CAPLUS 2-Pyrimidinemethanol, 4,4'-[4,4'-bipiperidine]-1,1'-diylbis[.alpha.-methyl-CN , (.alpha.R,.alpha.'R) - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

L20 ANSWER 13 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:
DOCUMENT NUMBER:

2001:816647 CAPLUS 135:357948

TITLE:

Preparation of heterocyclic compounds as phosphodiesterase V (PDE V) inhibitors

INVENTOR(S):

Yamada, Koichiro; Matsuki, Kenji; Omori, Kenji;

Kikkawa, Kohei

PATENT ASSIGNEE(S): SOURCE:

Tanabe Seiyaku Co., Ltd., Japan

PCT Int. Appl., 207 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001083460 Al 20011108 WO 2001-JP2034 20010315

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,

YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 2001041142
A5 20011112
AU 2001-41142
20010315

AU 2001041142 A5 20011112 AU 2001-41142 20010315
PRIORITY APPLN. INFO.:

JP 2000-130371 A 20000428
WO 2001-JP2034 W 20010315

OTHER SOURCE(S):

MARPAT 135:357948

GΙ

$$R^{2}$$
 R^{2}
 COR^{3}

AR Compds. of the general formula (I) or pharmacol. acceptable salts thereof [wherein X is :CH or N; Y is NH, NR4, S, O, CH:N, N:CH, N:N, CH:CH, or the like; R1 is lower alkoxy, amino, a nitrogenous heterocyclic group, or a hydroxyl group substituted with a heterocyclic group (wherein each group may be substituted); R2 is either a lower alkylamino or lower alkoxy group which may be substituted with aryl, or a lower alkoxy group substituted with a nitrogenous arom. heterocyclic group; and R3 is aryl, a nitrogenous heterocyclic group, lower alkyl, lower alkoxy, lower cycloalkoxy, a hydroxyl group substituted with a nitrogenous heterocyclic group, or amino (wherein each group may be substituted), or alternatively, R3 and the substituent of Y may be united to form a lactone ring] or pharmacol. acceptable salts thereof are prepd. These compds. exhibit excellent PDE V inhibitory activity and are useful as preventive or therapeutic agents for various diseases due to dysfunction of the signal transduction through cGMP, in particular impotence, pulmonary hypertension, and diabetic renal failure paralysis (no data). Thus, 2-(hydroxymethyl)pyridine was treated wit NaH in THF at room temp. for 30 min and then condensed with 2-chloro-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3-chloro-4methoxybenzylamino)pyrimidine (prepn. given) in THF at room temp. for 1 h to give 2-(2-pyridylmethoxy)-5-(3,4,5-trimethoxyphenylcarbonyl)-4-(3chloro-4-methoxybenzylamino)pyrimidine.

IT 372115-10-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of heterocyclic compds. as phosphodiesterase V inhibitors preventive or therapeutic agents for various diseases due to dysfunction of signal transduction through cGMP)

RN 372115-10-1 CAPLUS
CN 5-Pyrimidinecarboxy

5-Pyrimidinecarboxylic acid, 4-[[(3-chloro-4-methoxyphenyl)methyl]amino]-2-[4-hydroxy-4-(2-pyridinyl)-1-piperidinyl]-, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O \\ \hline \\ EtO-C \\ \hline \\ CH_2-NH \\ \hline \\ N \\ N \\ \end{array}$$

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS 20 ANSWER 14 OF 58 2001:791912 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 135:344503

TITLE: Preparation of imidazopyrimidines and

triazolopyrimidines as inhibitors of Syk tyrosine

INVENTOR(S): Yura, Takeshi; Conception, Arnel B.; Hahn, Kyun Hee;

Hiraoka, Makiko; Katsumada, Hiroko; Kawamura,

Norihiro; Kokubo, Toshio; Komura, Hiroshi; Lee, Young

Ho; Lowinger, Timothy B.; Motegi, Munehito; Yamamoto,

Tomoyuki; Yoshida, Osahiro

PATENT ASSIGNEE(S): Bayer'A.-G., Germany

SOURCE: Jpn. Kokai Tokkyo Koho, 212 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATI	ENT 1	NO.		KI	ND	DATE			A	PPLI	CATI	N NC	٥.	DATE			
JP 2	2001	3026	67	 A	2	2001	1031		J	P 20	00-1	2887	0	2000	0428		
WO 2	2001	0834	85	Α	1	2001	1108		W	20	01-E	P435	7	2001	0417		•
	W:	ΑE,	AG,	AL,	ΑM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,
		HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,
		RU,	SD,	SE													
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪG,	ZW,	ΑT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
PRIORITY	APP:	LN.	INFO	. :					JP 2	-000	1288	70	Α	2000	0428		
OTHER SO	URCE	(S):			MAR	PAT	135:	3445	03								
GT																	

GI

$$R^1$$
 R^2
 R^3
 R^3

AB The title compds. [I; R1 = X-R4, (un)substituted 4- to 5-membered (un) satd. heterocyclyl contg. .ltoreq.4 heteroatoms selected from O, N,

and S, 4 to 7-membered (un)satd. carbocyclyl, 7 to 10-membered (un)satd. condensed ring moiety optionally contg. .ltoreq.4 heteroatoms selected from O, N, and S [wherein X = (un) substituted CH2, O, S, SO, SO2, (un) substituted NH; R4 = (un) substituted C7-10 aroyl, C7-10 aralkyl, C1-10 alkyl, C2-10 alkenyl, C3-7 (un)satd. carbocyclyl, 4 to 7-membered (un) satd. heterocyclyl contg. .ltoreq.4 heteroatoms selected from O, N, and S, 7 to 10-membered (un)satd. condensed ring moiety optionally contg. .ltoreq.4 heteroatoms selected from O, N, and S]; Y = CH, N; R2 = H, (un) substituted C1-10 alkyl, NR8COR9, NR8CO2R9, COR8, CO2R9, CONR8R9 [wherein R8, R9 = H, (un)substituted C1-6 alkyl]; R3 = (un)substituted aryl or heteroaryl] or salts thereof are prepd. These compds. are useful as antiallergic agent for the prevention or treatment of asthma, allergic rhinitis, atopic dermatitis, food allergy, contact allergy, hives, conjunctivitis, and vernal (spring) catarrh, or as immunosuppressants, anticoagulants, or antitumor agents. Thus, 5-chloro-7-(3,4dimethoxyphenyl)imidazo[1,2-c]pyrimidine, 1-(4-fluorophenyl)piperazine dihydrochloride, diisopropylethylamine, and 2-propanol were heated at 90.degree. with stirring to give 64.6% 7-(3,4-dimethoxyphenyl)-5-[4-(4fluorophenyl)piperazin-1-yl]imidazo[1,2-c]pyrimidine which showed IC50 of .ltoreq.0.5 .mu.M against Syk tyrosine kinase.

ΙT 371168-27-3P

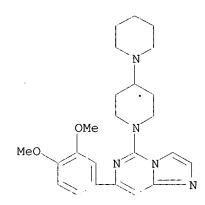
CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of imidazopyrimidines and triazolopyrimidines as inhibitors of Syk tyrosine kinase, immunosuppressants, anticoagulants, antitumor agents, or antiallergic agents)

371168-27-3 CAPLUS RN

> Imidazo[1,2-c]pyrimidine, 5-[1,4'-bipiperidin]-1'-yl-7-(3,4-bipiperidin)dimethoxyphenyl) - (9CI) (CA INDEX NAME)



ANSWER 15 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:730744 CAPLUS

DOCUMENT NUMBER:

135:288790

TITLE: Pyrrolopyrimidines as tyrosine kinase inhibitors INVENTOR(S): Hirst, Gavin C.; Calderwood, David; Munschauer,

Rainer; Arnold, Lee D.; Johnston, David N.; Rafferty,

Basif Aktokemmoraallical PATENT ASSIGNEE(S):

SOURCES

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
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                                         -----
                          20011004
    WO 2001072751
                    A1
                                       WO 2000-US8593 20000329
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
            CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
            ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
            LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
            SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA,
            ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
            DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
            CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                      WO 2000-US8593
                                                          20000329
PRIORITY APPLN. INFO.:
                        MARPAT 135:288790
OTHER SOURCE(S):
GΙ
```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Chem. compds. having structural formula I and physiol. acceptable salts and metabolites thereof, are inhibitors of serine/threonine and tyrosine kinase activity. Several of the kinases, whose activity is inhibited by these chem. compds., are involved in immunol., hyperproliferative, or angiogenic processes. Thus, these chem. compds. can ameliorate disease states where angiogenesis or endothelial cell hyperproliferation is a factor. These compds. can be used to treat cancer and hyperproliferative disorders, rheumatoid arthritis, disorders of the immune system, transplant rejections and inflammatory disorders. All exemplified compds. significantly inhibited either FGFR, PDGFR, KDR, Tie-2, Lck, Fyn, Blk, Lyn, or Src at .ltoreq.50 .mu.M, and some significantly inhibited cdc2 at .ltoreq.50 .mu.M. In I, ring A is a six membered arom. ring or a five or six membered heteroarom. ring which is optionally substituted. L is -O-, -S-, -S(0)-, -S(0)2-, -N(R)-, -N[C(0)OR]-, -N[C(0)R]-, -N(SO2R)-, -CH2O-; -CH2S-, -CH2N(R)-, -C(NR)-; -CH2N[C(O)R]-, -CH2N[C(O)OR]-, -CH2N(SO2R)-, -CH(NHR)-, -CH[NHC(O)R]-, -CH(NHSO2R)-, -CH[NHC(O)OR]-, -CH[OC(O)R]-, -CH[OC(O)NHR]-, -CH:CH-; -C(:NOR)-, -C(O)-, -CH(OR)-, -C(O)N(R)-, -N(R)C(O)-, -N(R)S(O)-, -N(R)S(O)2-, -OC(O)N(R)-, -N(R)C(O)N(R)-, -NRC(O)O-, -S(O)N(R)-, -S(O)2N(R)-, -N[C(O)R]S(O)-, -N[C(O)R]S(O)2-, -N(R)S(O)N(R)-, -N(R)S(O)2N(R)-, -C(O)N(R)C(O)-, -S(O)N(R)C(O)-, -S(O)2N(R)C(O)-, -OS(O)N(R)-, -OS(O)2N(R)-, -N(R)S(O)O-, -N(R)S(O)2O-, -N(R)S(O)C(O)-, -N(R)S(O)2C(O)-, -SON[C(O)R]-, -SO2N[C(O)R]-, N(R)P(O)(OR')O-, -N(R)P(O)(OR')-, -N[C(O)R]P(OR')O-, -N[C(O)R]P(OR')-,-N[C(O)R]P(O)(OR')O-, -N[C(O)R]P(OR')-, -CH(R)S(O)-, or -CH(R)S(O)2-. is also -CH(R)N[C(O)OR]-, -CH(R)N[C(O)R]-, -CH(R)N(SO2R), -CH(R)O-, -CH(R)S-, -CH(R)N(R)-, -CH(R)N[C(0)R]-, -CH(R)N[C(0)OR]-, -CH(R)N(SO2R)-, -CH(R)C(:NOR)-, -CH(R)C(O)-, -CH(R)CH(OR)-, -CH(R)C(O)N(R)--CH(R)N(R)C(O)-, -CH(R)N(R)S(O)-, -CH(R)N(R)S(O)2-, -CH(R)OC(O)N(R)-, -CH(R)N(R)C(O)N(R)-, -CH(R)N(R)C(O)O-, -CH(R)S(O)N(R)-, -CH(R)S(O)2N(R)-, - CH(R)N[C(O)R]S(O)-, - CH(R)N[C(O)R]S(O)2-, - CH(R)N(R)S(O)N(R)-, - CH(R)N(R)S(O)2N(R)-, - CH(R)C(O)N(R)C(O)-, - CH(R)S(O)N(R)C(O)-, - CH(R)S(O)-, - CH(R)-CH(R)S(O)2N(R)C(O)-, -CH(R)OS(O)N(R)-, -CH(R)OS(O)2N(R)-, -CH(R)N(R)S(O)O-, -CH(R)N(R)S(O)2O-, -CH(R)N(R)S(O)C(O)--CH(R)N(R)S(O)2C(O)-, -CH(R)SON[C(O)R]-, -CH(R)S(O)2N[C(O)R]-, - CH(R)N(R)SON(R) -, - CH(R)N(R)S(O)2N(R) -; - CH(R)C(O)O -, - CH(R)N(R)P(OR')O -, - CH(R)N(R)P(OR') -, - CH(R)N(R)P(O)(OR')O -, - CH(R)N(R)P(O)(OR') -, - CH(R)N(R)P(O)(OR')O -, - CH(R)N(R)P(OR')O -, - CH(R)N(R)P(OR- CH(R)N[C(O)R]P(OR')O-, - CH(R)N[C(O)R]P(OR')-, - CH(R)N[C(O)R]P(O)(OR')O- - CH(R)N[C(O)R]P(O)(OR')O- - CH(R)N[C(O)R]P(OR')O- - CH(R)N[C(O)R]P(OR')or -CH(R)N[C(O)R]P(OR')-. In L, each R and R' is, independently, -H, acyl, substituted or unsubstituted aliph., arom., arylalkyl, heteroarom., cycloalkyl or arylalkyl; or L is -RbN(R)S(O)2-, -RbN(R)P(O)-, or -RbN(R)P(O)O-, wherein Rb is an alkylene group which when taken together

with the sulfonamide, phosphinamide, or phosphonamide group to which it is bound forms a five or six membered ring fused to ring A; or L is II (X = O)or nil; Y = 0 or nil) or III (Y = 0, nil) wherein R85 taken together with the phosphinamide, or phosphonamide is a 5-, 6-, or 7-membered, arom., heteroarom. or heterocycloalkyl ring system. G is a direct bond, -(CH2)j-(j = 1-6), C2-C6-alkenylene, C3-C8-cycloalkylene or C1-C6-oxaalkylene group. R1 is substituted or optionally substituted aliph., cycloalkyl, bicycloalkyl, cycloalkenyl, arom., heteroarom., heteroaralkyl, heterocycloalkyl, heterobicycloalkyl, alkylamido, arylamido, -S(0)2-alkyl, -S(O)2-cycloalkyl, -C(O)alkyl, or -B-E, wherein B is substituted or unsubstituted cycloalkyl, heterocycloalkyl, arom., heteroarom., alkylene, aminoalkyl, alkylenecarbonyl, or aminoalkylcarbonyl and E is substituted or unsubstituted azacycloalkyl, azacycloalkylcarbonyl, azacycloalkylsulfonyl, azacycloalkylalkyl, heteroaryl, heteroarylcarbonyl, heteroarylsulfonyl, heteroaralkyl, alkyl sulfonamido, aryl sulfonamido, bicycloalkyl, ureido, thioureido or aryl. R2 is -H or substituted or unsubstituted aliph., cycloalkyl, halogen, -OH, cyano, arom., heteroarom., heterocycloalkyl, aralkyl, heteroaralkyl, -(CH2)0-3NR4R5, or -(CH2)0-3C(0)NR4R5. R3 is substituted or unsubstituted aliph., alkenyl, cycloalkyl, arom., heteroarom., or heterocycloalkyl with provisos. R4, R5 and the N atom together form a 3, 4, 5, 6 or 7-membered, substituted or unsubstituted heterocycloalkyl, heterobicycloalkyl or heteroarom.; or R4 and R5 are each, independently, -H, azabicycloalkyl, heterocycloalkyl, substituted or unsubstituted alkyl or Y-Z; Y is -C(0)-, -(CH2)p-, -S(0)2-, -C(O)O-, -SO2NH-, -CONH-, -(CH2)pO-, -(CH2)pNH-, -(CH2)pS-, -(CH2)pS(O)-, and -(CH2)pS(O)2-; p=0-6; and Z is -H, or substituted or unsubstituted alkyl, amino, aryl, heteroaryl or heterocycloalkyl. 546 Example prepns. are included. For example, addn. of piperidine to 4-[4-amino-5-(4phenoxyphenyl)-7H-pyrrolo[2,3-d]pyrimidin-7-yl]cyclohexanone in DCE and AcOH, followed by treatment with Na[(AcO)3BH], workup and chromatog., gave cis- and trans-IV.

364354-34-7P

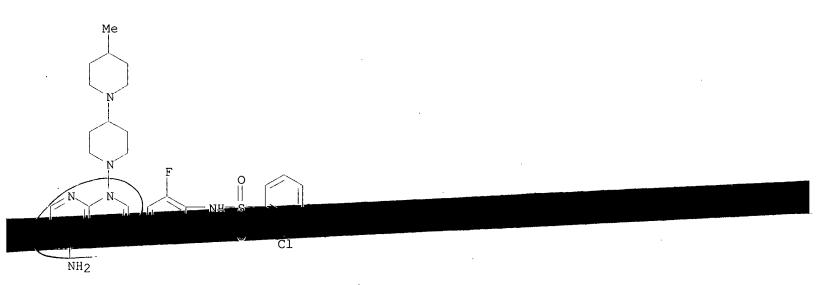
ΙT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyrrolopyrimidinamines as protein kinase inhibitors)

RN 364354-34-7 CAPLUS

CN Benzenesulfonamide, N-[4-[4-amino-7-(4-methyl[1,4'-bipiperidin]-1'-yl)-7H-pyrrolo[2,3-d]pyrimidin-5-yl]-2-fluorophenyl]-2,3-dichloro-(9CI) (CA INDEX NAME)



REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 16 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2001:709746 CAPLUS

DOCUMENT NUMBER:

135:257261

TITLE:

Preparation of 2-(piperidin-1-yl)pyrimidones for

preventive and/or therapeutic treatment of a

neurodegenerative disease caused by abnormal activity

of GSK3.beta.

INVENTOR(S):

Almario-Garcia, Antonio; Frost, Jonathan Reid; Li-Tak,

Adrien

PATENT ASSIGNEE(S):

Sanofi-Synthelabo, Fr.; Mitsubishi-Tokyo

Pharmaceuticals, Inc. Eur. Pat. Appl., 14 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: _3-

PATENT INFORMATION:

DATE PATENT NO. KIND APPLICATION NO. DATE ______ _____ _____ EP 1136489 A1 20010926 EP 2000-400802 20000323 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO WO 2001070728 Α1 20010927 WO 2001-EP3639 20010322 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: EP 2000-400801 A 20000323 EP 2000-400802 A 20000323 EP 2000-400803 A 20000323

not designated to the U.S.

OTHER SOURCE(S):

MARPAT 135:257261

GΙ

$$\begin{array}{c|c}
R^2 \\
N \\
N \\
N \\
N \\
O \\
H
\end{array}$$

The title compds. [I; Rl = (un) substituted aryl, heterocyclic ring having 1-4 hetero atoms selected from O, S, and N atoms, (un) substituted alkyl; R2 = pyridyl optionally substituted by alkyl, alkoxy or halo] and their salts, useful for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta., such as Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, cerebrovascular accidents, brain and spinal trauma, and peripheral neuropathy, were prepd. and formulated. E.g., a 3-step synthesis of I [R1 = Ph; R2 = 4-pyridyl] was

given. All exemplified compds. I showed IC50's of $0.5-10~\mathrm{mu.M}$ against GSK3.beta..

IT 362467-49-0P 362467-50-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3.beta.)

RN 362467-49-0 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-(4-pyridinyl)-(9CI) (CA INDEX NAME)

RN 362467-50-3 CAPLUS

CN 4(1H)-Pyrimidinone, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-(4-pyridinyl)-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 362467-49-0 CMF C17 H18 N6 O

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

REFERENCE COM

AVANTABLE IN THE RE FORMAT

120 ANSWER 17 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:545485 CAPLUS

DOCUMENT NUMBER:

135:13/503

TITLE:

Preparation of 3-(phenylheterocyclyl)pyrazole DNA

gyrase inhibitors as antibacterial agents

INVENTOR(S): Charifson, Paul; Bellon, Steve; Stamos, Dean; Badia,

Michael; Grillot, Anne-Laure; Ronkin, Steven; Murcko,

Mark; Trudeau, Martin

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 110 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	и ис	ο.	DATE			
WO	2001	0528	46	A	1	2001	0726		W	0 20	01-U	s137	7	2001	0116		
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY;	BZ,	CA,	TCH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
														UG,			
		YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM				
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
		-												PT,			
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		•
EP	1251	849	,	A	1	2002	1030	•	Ē	P 20	01-9	0487	1	2001	0116		
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
PRIORITY APPLN. INFO.: US 2000-176675P P 20000118																	
								1	US 2	000-	2543	31P	P	2000	1208		
								1	WO 2	001-	US13	77	W	2001	0116		

GI

Disclosed are compds. comprising the pharmacophore features HBA, HBD, Grp1, and at least 2 features selected from Grp2, Grp3, or Grp4 [wherein HBA (H bond acceptor) and HBD (H bond donor) together = (un)substituted pyrazole, 1,2,4-triazole, piperidine, piperazine, thiazole, imidazole, oxazole, etc.; Grp1 = (cyclo)alkyl, (un)substituted carboxy, CONR2, CONHOR, SO2R, SO2NR2, CH2(CH2)nNRCOR, CH2(CH2)nCONR2, CH2(CH2)nSO2NR2, CH:NOR, CH:NNRCOR, CH:NNR2, etc.; Grp2 = H, aliph. group, CONHR, CN, halo, CO2R, SO2R, COR, CONR2, SO2NR2, NRSO2R, NRSO2NR2, Q, COQ, SO2Q, CONHQ, NRSO2Q, or NRSO2NRQ; Grp3 = R, SR, SO2R, SO2NHR, CONHR, CONR2, COR, NHSO2R, NHR, (hetero)aryl, or heterocyclyl; Grp4 = R, SR, SO2R, SO2NHR, CONHR, CONR2, COR, NHSO2R, NHR, halo, (hetero)aryl, or heterocyclyl; R = H

or (un)substituted aliph. group; n = 0-1; Q = 3- to 5-membered heterocyclyl or 5- or 6-membered heteroaryl]. The compds. are inhibitors of bacterial DNA gyrase and are useful in treating bacterial infections. For example, condensation of triflic anhydride with 4-hydroxy-2-phenylthiazole-5-carboxylic acid Et ester in the presence of 2,6-lutidine (82%), substitution with piperidine (96%), amidation with N,O-dimethylhydroxylamine.bul.HCl in the presence of Me2AlCl (98%), conversion to the ethanone using MeLi.bul.LiBr (72%), and sequential addn. of KOBu-t, di-Et oxalate, and H2NNH2.bul.H2O gave the 3- (phenylthiazolyl)pyrazole I (59%). Selected compds. of the invention were assayed for ATP hydrolysis activity against E. coli DNA gyrase and exhibited Ki values in the ranges of < 500 nM, 500-1500 nM, and > 1500 nM. 351428-67-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(prepn. of heterocyclylpyrazole DNA gyrase inhibitors by conversion of heterocyclylcarboxylic acid methoxy Me amides to ketones and cyclization with hydrazine)

RN 351428-67-6 CAPLUS

Carbamic acid, [[5-[2-phenyl-4-[4-(1-pyrrolidinyl)-1-piperidinyl]-5-thiazolyl]-1H-pyrazol-3-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LX ANSWER 18 OF 58 CAPLUS COPYRIGHT 2003 ACS

DOCUMENT NUMBER:

2001:545484 CAPLUS 135:137502

TITLE:

ΙT

CN

Preparation of 3-(phenylheterocyclyl)pyrazole DNA

gyrase inhibitors as antibacterial agents Charifson, Paul; Stamos, Dean; Badia, Michael;

Grillot, Anne-laure; Ronkin, Steven; Trudeau, Martin

PATENT ASSIGNEE(S): Vertex Pharmaceuticals Inc., USA

SOURCE:

PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

WO 2001052845 A1 20010726 WO 2001-US1374 20010116

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,

Liu 09/669298

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LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1251848
                       Α1
                            20021030
                                            EP 2001-903077
                                                             20010116
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     BR 2001007713
                            20021119
                                            BR 2001-7713
                                                             20010116
                                         US 2000-176671P
PRIORITY APPLN. INFO .:
                                                          Р
                                                             20000118
                                         US 2000-254331P
                                                          Ρ
                                                             20001208
                                         WO 2001-US1374
                                                             20010116
                         MARPAT 135:137502
OTHER SOURCE(S):
GΙ
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. Title compds. (I) [wherein A = thiazole, oxazole, (5- to 7-membered fused ring) imidazole, or pyrazole; X = S, O, or NH; Y = C or N; Z = CR3 or NR3; R1 = (un)substituted aliph. group, C(R4)2(CH2)nNRCOR, CR4:NOR, CR4:NOCOR6, CR4:NNRCO2R6, CR4:NNRCOR, CR4:NNR2, C(R4)2(CH2)nNRCO2R6, CO2R6, CONR2, C(R4)2(CH2)nCONR2, C(R4)2(CH2)nSO2NR2, CONHOR, SO2NR2, or C(R4)2(CH2)nNRSO2R6; R2 = H, halo, CN, aliph. group, 3- to 5- membered heterocyclyl, or 5-membered heteroaryl; R3 = (CH2)pN(R5)2 or (un) substituted heterocyclylalkyl, (hetero) aryl, or (hetero) aralkyl; R4 = independently H, (un) substituted aliph. group, or 2 R4 taken together with the C to which they are attached may form a 3- to 6-membered ring; R5 = independently H, (un) substituted aliph. group, or 2 R5 taken together with the N to which they are attached may form a 5- or 6-membered heterocycle; R6 = aliph. group; n = 0-2; p = 0-4; R = independently H or(un) substituted aliph. group; and pharmaceutically acceptable salts thereof] were prepd. I inhibit bacterial gyrase activity and therefore are useful for treating bacterial infections. For example, condensation of triflic anhydride with 4-hydroxy-2-phenylthiazole-5-carboxylic acid Et ester in the presence of 2,6-lutidine (82%), substitution with piperidine (96%), amidation with N,O-dimethylhydroxylamine.bul.HCl in the presence of Me2AlCl (98%), conversion to the ethanone using MeLi.bul.LiBr (72%), and sequential addn. of KOBu-t, di-Et oxalate, and H2NNH2.bul.H2O gave the 3-(phenylthiazolyl)pyrazole II (59%). Selected compds. of the invention were assayed for ATP hydrolysis activity against E. coli DNA gyrase and exhibited Ki values in the ranges of < 500 nM, 500-1500 nM, and > 1500 nM. IT 351428-67-6P

II

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heterocyclylpyrazole DNA gyrase inhibitors by conversion of heterocyclylcarboxylic acid methoxy Me amides to ketones and cyclization with hydrazine)

RN 351428-67-6 CAPLUS

CN

Carbamic acid, [[5-[2-phenyl-4-[4-(1-pyrrolidinyl)-1-piperidinyl]-5thiazolyl]-1H-pyrazol-3-yl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 19 OF 58 CAPLUS COPYRIGHT 2003 ACS 2001:435072 CAPLUS

ACCESSION NUMBER:

DOCUMENT NUMBER: 135:46188

TITLE: Substituted pyridazines having cytokine inhibitory

activity

INVENTOR(S): Mcintyre, Charles J.; Liverton, Nigel J.; Claremon,

David A.

PATENT ASSIGNEE(S): Merck + Co., Inc., USA PCT Int. Appl., 70 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT 1	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	ο.	DATE			
WO 20010	0422	41	A	1	2001	0614		W	20	00-U	S330:	- <i>-</i> 97	2000	1207		
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,
	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,	RO,	RU,	SD,
	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,
	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					•
RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
	DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG		
EP 12401	160		A	1	2002	0918		E.	P 20	00-9	8627	4	2000	1207		
R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB_{\prime}	GR,	_I.T.,	Į.Į.,.	$-\mathbf{L}\mathbf{U}_{\sigma}$	NI_{20}	SR	MC:	וויסו

WO 2000-US33097 W 20001207

OTHER SOURCE(S):

MARPAT 135:46188

GI

AΒ Pyridazines I [A is halogen, Ph, PhS(:0)m (m = 0-2), or R5R6N; R1 is H, alkylamino, or (un) substituted arylamino; R2, R3, R4 are independently halogen, hydroxy, F3C, amino, nitro, (C1-C6)alkyl, (C1-C6)alkoxy, (C3-C8)cycloalkyl, Ph; R5 and R6 are independently hydrogen, alkoxy-, (un) substituted amino-, and (un) substituted phenyl-substituted (or unsubstituted) (C1-C6)alkyl or R5R6 = (C4-C10)(un)substituted (mono- or bicyclic)heterocycle; Q is CH or N] are prepd. as inhibitors or antagonists of the formation and activity of cytokines such as interleukin-1.beta. (IL-1.beta.), IL-6, and IL-8 for the treatment of cytokine mediated diseases and conditions such as inflammation, arthritis, sepsis and septic shock, osteoporosis, bone resorption diseases, and Crohn's disease. E.g., the dihydrochloride of I [A = Me2NCH2CH2NH; R1 = (S)-PhCH(Me)NH; R2 = 3-F3C; R3 = R4 = H] (II) was prepd. by amidation of 3-trifluoromethylbenzoyl chloride with N-methoxymethylamine, displacement of the amide with 2-(methylthio)-4-pyrimidinylmethyllithium, alkylation of the ketone with Me bromoacetate, hydrolysis of the ester with hydrogen chloride in dioxane, addn. and cyclization of the acid and ketone moieties with hydrazine, oxidn. of the methylthio group to the pyrimidinyl Me sulfone with sodium tungstate and hydrogen peroxide, addn. of (S) - .alpha. -methylbenzylamine to the pyrimidinyl sulfone with substitution to give the pyrimidinamine, oxidn. of the cyclic hydrazone to the hydroxypyridazine with DDQ, and chlorination of the hydroxypyridazine with phosphorus oxychloride to give I [A = Cl; R1 = (S)-PhCH(Me)NH; R2 = 3-F3C; R3 = R4 = H], a key intermediate in the prepn. of the claimed pyridazines. E.g., treatment of I [A = C1; R1 = (S)-PhCH(Me)NH; R2 = 3-F3C; R3 = R4 = C1; R1 = (S1-PhCH(Me)NH; R2 = S1-F3C; R3 = R4 = C1-PhCH(Me)NH; R3 = S1-F3C; R3 = C1-PhCH(Me)NH; R3 = S1-F3C; R3 = R4 = C1-PhCH(Me)NH; R3 = S1-F3C; R3 = R4 = C1-PhCH(Me)NH; R3 = C1-PhCH(Me)NH;H] with 2-(dimethylamino)ethylamine and heating at 100.degree. gave II as the free base which was converted to the hydrochloride by treatment with 1N HCl. No biol. data is provided.

IT 344464-87-5P 344465-42-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of pyridazine derivs. as inhibitors of cytokine formation and activity for the treatment of cytokine-mediated diseases such as arthritis)

RN 344464-87-5 CAPLUS

CN 2-Pyrimidinamine, 4-[6-[1,4'-bipiperidin]-1'-yl-3-[3-(trifluoromethyl)phenyl]-4-pyridazinyl]-N-[(1S)-1-phenylethyl]- (9CI) (CAINDEX NAME)

Absolute stereochemistry.

RN 344465-42-5 CAPLUS

CN 2-Pyrimidinamine, 4-[6-[1,4'-bipiperidin]-1'-yl-3-[3-(trifluoromethyl)phenyl]-4-pyridazinyl]-N-[(1S)-1-phenylethyl]-, tris(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 344464-87-5 CMF C33 H36 F3 N7

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LX ANSWER 20 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:360023 CAPLUS

DOCUMENT NUMBER:

134:366805

TITLE:

Aliphatic hydroxy substituted piperidyl diaryl pyrrole

derivatives as antiprotozoal agents

INVENTOR(S):

Biftu, Tesfaye; Feng, Danging D.; Liang, Gui-Bai; Ponpipom, Mitree M.; Qian, Xiaoxia; Fisher, Michael H.; Wyvratt, Matthew J.; Bugianesi, Robert L.

PATENT ASSIGNEE(S):

SOURCE:

Merck + Co., Inc., USA PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO. KI					DATE			A	PPLI	CATI	ON NO	0.	DATE					
					A2 20010517				W	0 20	00-U	s307	48	20001111					
WO	2001	0346	32	A3		20010927													
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														GE,					
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,		
		LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,		
		SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,		
		ZA,	ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM							
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,		
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,		
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
PRIORIT	US 1999-165144P P 19991112																		
OTHER S	MARPAT 134:366805																		
GI																			

AΒ Trisubstituted pyrroles I are antiprotozoal agents (no data), useful in the treatment and prevention of protozoal diseases in human and animals, including the control of coccidiosis in poultry [wherein: n = 0-1; p =1-3; X = bond, (un)substituted (CH2)1-3, cycloalkylene, cycloalkylidene; R = halo; R1 = H or alkyl; R2, R3 = H, (un)substituted alkyl, alkenyl, alkynyl, (un)substituted Ph or CH2Ph, CO2H or derivs.; or R2R3 = O; R4 = OH or SH or their derivs.; R5, R6 = H, alk(en/yn)yl, cycloalkyl(alkyl), (hetero)aryl(alkyl), heterocyclyl(alkyl), CO2H or OH or derivs.; or R4R5 or R5R6 forms 3- to 7-membered hetero ring; or R4R6 = 0; or R2R4 or R2R5 forms 4- to 7-membered carbo or hetero ring; R7 = O, Me; and physiol. acceptable salts]. Approx. 200 compds. were prepd. For instance, 4-picoline was lithiated and condensed with 4-FC6H4CONMeOMe, and the resulting ketone was deprotonated and coupled with 4-(2-iodoacetyl)-1-(benzyloxycarbonyl)piperidine to give a 1,4-diketone. Cyclization of this with ammonium acetate and deprotection gave pyrrole intermediate II [R' = H], which was N-alkylated by (R)-glycidyl Me ether to give title compd. II [R' = (R) - CH2CH(OH)CH2OMe].

IT 340183-60-0P 340184-34-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of diarylpiperidylpyrrole derivs. as antiprotozoal agents)

340183-60-0 CAPLUS

RN

CN

Pyridine, $4-[5-[1-(2,3-dihydro-2,2-dimethyl-3-furanyl)-4-piperidinyl]-2-(4-fluorophenyl)-1H-pyrrol-3-yl]- (9CI) (CA_INDEX_NAME)$

340184-34-1 CAPLUS RN

2(5H)-Furanone, 4-[4-[5-(4-fluorophenyl)-4-(4-pyridinyl)-1H-pyrrol-2-yl]-1-CN piperidinyl] - (9CI) (CA INDEX NAME)

ANSWER 21 OF 58 CAPLUS COPYRIGHT 2003 ACS

CCÈSSION NUMBER:

2001:359798 CAPLUS

DOCUMENT NUMBER:

134:366802

TITLE:

Diaryl piperidyl pyrrole derivatives useful as

antiprotozoal agents

INVENTOR(S):

Biftu, Tesfaye; Feng, Danqing D.; Liang, Gui-Bai;

Ponpipom, Mitree M.; Qian, Xiaoxia; Fisher, Michael

H.; Wyvratt, Matthew J.

PATENT ASSIGNEE(S):

SOURCE:

Merck + Co., Inc., USA PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND DATE				A.	PPLI	CATI	ON NO	Э.	DATE				
	WO	2001034149			A.	1	20010517			W	20	: วo-บ:	53074	20001109					
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	
			HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	
			LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	
			SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,	VN,	YU,	
		,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
		RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	TR,	BF,	
			ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG			
	US 6291480				B1 20010918					US 2000-710147 -20001110								-	
	US	63840	052		B.	1	2002	0507		U	S 20	00-70	09959	9	2000	1110			
PRIOF	RTT?	' APPI	LN. :	INFO.	. :				1	US 1:	999-:	1651	12P	P	1999	1112			
OTHER	≀ SC	HIRCE	(8) .			MAR	PAT T	134.1	36681	12									

GI

$$(R) p \qquad \qquad N \qquad \qquad$$

AΒ Trisubstituted pyrroles I are antiprotozoal agents (no data), useful in the treatment and prevention of protozoal diseases in human and animals, including the control of coccidiosis in poultry [wherein: n = 0-1; p =1-3; R = halo; R1 = H or alkyl; R2 = (un)substituted alk(en/yn)yl, cycloalkyl(alkyl), (hetero)aryl(alkyl); R3 = O or CH3; with 3 specific exclusions]. Approx. 100 compds. were prepd. For instance, 4-picoline was lithiated and condensed with 4-FC6H4CONMeOMe, and the resulting ketone was deprotonated and coupled with 4-(2-iodoacetyl)-1-(benzyloxycarbonyl)piperidine to give a 1,4-diketone. Cyclization of this with ammonium acetate and deprotection gave pyrrole intermediate II [R2 = H], which was reductively N-alkylated by acetaldehyde and NaBH(OAc)3 to give title compd. II [R2 = Et]. ΙT 339988-61-3P, 2-(4-Fluorophenyl)-5-[N-(2-pyrimidinyl)piperidin-4yl]-3-(4-pyridinyl)pyrrole 339988-63-5P, 2-(4-Fluorophenyl)-5-[N-(2-thiazolyl)piperidin-4-yl]-3-(4-pyridinyl)pyrrole RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (drug candidate; prepn. of diarylpiperidylpyrrole derivs. as antiprotozoal agents)

339988-61-3 CAPLUS RN

> Pyrimidine, 2-[4-[5-(4-fluorophenyl)-4-(4-pyridinyl)-1H-pyrrol-2-yl]-1piperidinyl] - (9CI) (CA INDEX NAME)

RN 339988-63-5 CAPLUS

CN Pyridine, 4-[2-(4-fluorophenyl)-5-[1-(2-thiazolyl)-4-piperidinyl]-1H-pyrrol-3-yl]- (9CI) (CA INDEX NAME)

Liu

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 22 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:283949 CAPLUS

DOCUMENT NUMBER: 134:311218

TITLE: Synthesis and use of heterocyclic sodium/proton

exchange inhibitors

INVENTOR(S): Ahmad, Saleem; Wu, Shung C.; O'Neil, Steven V.; Ngu,

Khehyong; Atwal, Karnail S.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: PCT Int. Appl., 221 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIND		DATE			A	PPLI	CATI	ON NO	o.	DATE				
WO 2001027107				A:	2 20010419				WO 2000-US27461 20001002									
WO 2001027107			A.	A3 20020124														
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	ΒA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,	
		HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	PL,	PT,	RO,	RU,	
		SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,	VN,	
		YU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					
	RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	ΤZ,	UG,	ΖW,	ΑT,	BE,	CH,	CY,	
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	
		CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
EP 1224183			A2 20020724					EP 2000-968723 20001002										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL								
NO 2002001717				Α		2002	0610	NO 2002-1717					20020411					

PRIORITY APPLN. INFO.:

US 1999-158755P P 19991012 WO 2000-US27461 W 20001002

II

OTHER SOURCE(S):

MARPAT 134:311218

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AB Compds. of formula I [wherein; n is 1-5; X is N or CR5, where R5 is H, halo, alkenyl, alkynyl, alkoxy, alkyl, aryl or heteroaryl; Z is a heteroaryl group; R1 is H, alk(en)(yn)yl, alk(enyl)(ynyl)oxy, (aryl or alkyl)3Si, cycloalk(en)yl, (aryl)amino, aryl(alkyl), cycloheteroaryl, etc.; R2, R3 and R4 are any of the groups set out for R1 and optionally substituted with 1 to 5 substituents which may be the same or different and when X is N, R1 is preferably aryl or heteroaryl] are claimed. Several hundred examples are disclosed. Synthesis of II proceeds via cyclopropanation of the cinnamate derived from the olefination between 3,5-dichlorobenzaldehyde and t-butyldiethylphosphonoacetate. intermediate tert-Bu ester is converted to the corresponding .alpha.-chloroketone and reacted with acetyl guanidine to provide II in a total of 5 steps. Compds. I are said to be sodium/proton exchange inhibitors (NHE). Pharmaceutical combinations are claimed using I and certain antihypertensive agents, .beta.-adrenergic agonists, hypolipidemic agents, antidiabetic agents, antiobesity agents, etc. Compds. I are useful as antianginal and cardioprotective agents and provide a method for preventing or treating angina pectoris, cardiac dysfunction, myocardial necrosis, and arrhythmia.

IT 335062-12-9P 335062-43-6P 335062-57-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(synthesis and use of heterocyclic sodium/proton exchange inhibitors) 335062-12-9 CAPLUS

RN 335062-12-9 CAPLUS
CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(3-nitro-2-thienyl)- (9CI)
(CA INDEX NAME)

RN 335062-43-6 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-57-2 CAPLUS
CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

ΙT 335062-07-2P 335062-09-4P 335062-10-7P 335062-11-8P 335062-13-0P 335062-26-5P 335062-27-6P 335062-28-7P 335062-29-8P 335062-30-1P 335062-31-2P 335062-32-3P 335062-33-4P 335062-34-5P 335062-35-6P 335062-36-7P 335062-37-8P 335062-38-9P 335062-39-0P 335062-40-3P 335062-41-4P 335062-42-5P 335062-44-7P 335062-46-9P 335062-47-0P 335062-48-1P 335062-49-2P 335062-50-5P 335062-51-6P 335062-52-7P 335062-53-8P 335062-54-9P 335062-55-0P 335062-56-1P 335062-58-3P 335062-59-4P 335062-60-7P 335062-61-8P 335062-62-9P 335062-63-0P 335062-64-1P 335062-65-2P 335062-66-3P 335062-67-4P 335062-68-5P 335062-69-6P 335062-71-0P 335062-72-1P 335062-73-2P 335062-74-3P 335062-75-4P 335062-76-5P 335062-77-6P 335062-78-7P 335062-79-8P 335062-80-1P 335062-81-2P 335062-82-3P 335062-83-4P 335062-84-5P 335062-85-6P 335062-86-7P 335062-87-8P 335062-88-9P 335062-89-0P 335062-90-3P 335062-91-4P 335062-92-5P 335062-93-6P 335062-94-7P 335062-95-8P 335062-96-9P 335062-97-0P 335062-98-1P 335062-99-2P 335063-00-8P 335063-01-9P 335063-02-0P 335063-03-1P 335063-04-2P 335063-05-3P 335063-06-4P 335063-07-5P 335063-08-6P 335063-09-7P 335063-10-0P 335063-11-1P 335063-12-2P 335063-13-3P 335063-14-4P

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335063-21-3P 335063-22-4P 335063-23-5P
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335064-35-2P 335065-05-9P 335065-06-0P
335065-07-1P 335065-08-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
   (synthesis and use of heterocyclic sodium/proton exchange inhibitors)
335062-07-2 CAPLUS
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Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(1-phenyl-1H-tetrazol-5-yl)-

Me

RN

CN

335062-09-4 CAPLUS

(CA INDEX NAME)

RN CN 1H-Benzimidazole, 5-methoxy-2-[4-(5-methyl-1H-imidazol-4-yl)-1piperidinyl]- (9CI) (CA INDEX NAME)

RN 335062-10-7 CAPLUS

CN Pyridazine, 3-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-phenyl-(9CI) (CA INDEX NAME)

RN 335062-11-8 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-(methylthio)-5-phenyl- (9CI) (CA INDEX NAME)

RN 335062-13-0 CAPLUS

CN 3-Thiophenamine, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335062-26-5 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-27-6 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-26-5 CMF C17 H19 C12 N7 O

CM 2

CRN 76-05-1

CMF C2 H F3 O2

RN 335062-28-7 CAPLUS

CN Printer dispo

RN 335062-29-8 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-30-1 CAPLUS

CN Piperidine, 1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-31-2 CAPLUS

CN Piperidine, 1-[1-(4-chloro-3-methylphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-32-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichlorophenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-33-4 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-34-5 CAPLUS

CN Piperidine, 1-[1-(3,4-dichlorophenyl)-1H-tetrazol-5-vl]-4-(5-mothwell-1H-tetrazol-5-vl]-4-(

RN 335062-35-6 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[1-(phenylmethyl)-1H-tetrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-36-7 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[1-(3-methylphenyl)-1H-tetrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-37-8 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-38-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-37-8 CMF C17 H20 C12 N8 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN

335062-39-0 CAPLUS

RN 335062-40-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-41-4 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(4-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-42-5 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-44-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-(1-phenyl-1H-tetrazol-5-yl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335062-46-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(4-chloro-3-methylphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335062-47-0 CAPLUS

CN Acetamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335062-48-1 CAPLUS

CN Acetamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335062-47-0 CMF C19 H23 C1 N8 O2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335062-49-2 CAPLUS

CN Acetamide, N-[4-[1-[1-(2-chlorophenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335062-50-5 CAPLUS

CN Propanamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335062-51-6 CAPLUS

CN Propanamide, N-[4-[1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-2-methyl- (9CI) (CA INDEX NAME)

RN 335062-52-7 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CRN 335062-33-4 CMF C17 H20 Cl N7 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335062-53-8 CAPLUS

CN Piperidine, 1-[1-(3-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-54-9 CAPLUS

CN Piperidine, 1-[1-(2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-55-0 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-1H-tetrazol-5-yl]-4-(1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-56-1 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-58-3 CAPLUS

CN Piperidine, 1-[4-bromo-1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

Prperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-(3-methyl-1-phenyl-1H-pyrazol-5-yl)- (9CI) (CA INDEX NAME)

RN 335062-60-7 CAPLUS

CN Piperidine, 1-[1-(3-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-61-8 CAPLUS

CN Piperidine, 1-[1-(4-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-62-9 CAPLUS

CN Piperidine, 1-[1-(2,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-63-0 CAPLUS

CN Piperidine, 1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-64-1 CAPLUS

CN Piperidine, 1-[1-(2-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-65-2 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(2-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-66-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-67-4 CAPLUS

CN Piperidine, 1-[1-(3,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-68-5 CAPLUS

CN Benzenesulfonamide, 4-[3-methyl-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1H-pyrazol-1-yl]- (9CI) (CA INDEX NAME)

$$O = S - NH_2$$

$$N = NH_2$$

RN 335062-69-6 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-ethyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-71-0 CAPLUS

CN Piperidine, 1-[1-(2-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-72-1 CAPLUS

UCA LINDEX NAME

RN 335062-73-2 CAPLUS

CN Piperidine, 1-[1-(3,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-74-3 CAPLUS

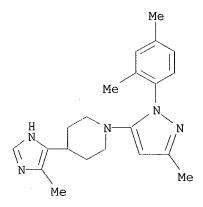
CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(4-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-75-4 CAPLUS

CN Piperidine, 1-[1-(4-chloro-2-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-76-5 CAPLUS

CN Piperidine, 1-[1-(2,4-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)



RN 335062-77-6 CAPLUS

CN Piperidine, 1-[1-(2,5-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-78-7 CAPLUS

RN 335062-79-8 CAPLUS

CN Piperidine, 1-[1-(2,5-difluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-80-1 CAPLUS

CN Piperidine, 1-[1-(2-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-81-2 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[4-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-82-3 CAPLUS

CN Piperidine, 1-[1-[3,5-bis(trifluoromethyl)phenyl]-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-83-4 CAPLUS

CN Piperidine, 1-[1-(2,3-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-84-5 CAPLUS

CN Piperidine, 1-[1-(3-chloro-4-fluorophenyul) -3------

RN 335062-85-6 CAPLUS

CN Piperidine, 1-[1-(3,5-dimethylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-86-7 CAPLUS

CN Piperidine, 1-[1-(5-fluoro-2-methylphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-87-8 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-phenyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-88-9 CAPLUS

CN Piperidine, 1-[1-(5-chloro-2-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-89-0 CAPLUS

CN

Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[2-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-90-3 CAPLUS

CN Piperidine, 1-[1-(2-chloro-6-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-91-4 CAPLUS

CN Piperidine, 1-[1-(2,6-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-92-5 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-(3-methylphenyl)-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-93-6 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[3-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-94-7 CAPLUS

CN Piperidine, 4-(5-methyl-1H-imidazol-4-yl)-1-[3-methyl-1-[4-(trifluoromethoxy)phenyl]-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335062-95-8 CAPLUS

CN Piperidine, 1-[1-(2-chloro-5-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-96-9 CAPLUS

CN Piperidine, 1-[1-(5-ch-long-2-mothy-limb)

RN 335062-97-0 CAPLUS

CN Piperidine, 1-[1-(3-bromophenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-98-1 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335062-99-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-00-8 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-01-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,5-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-02-0 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-(2-methylphenyl)-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-03-1 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,4-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-04-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(2,3-dichlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-05-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chloro-4-fluorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & & \\ & & & \\ H_2N & & & \\ N & & & \\ Me & & \\ \end{array}$$

RN 335063-06-4 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-[3-(trifluoromethyl)phenyl]-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-07-5 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[3-methyl-1-(3-methylphenyl)-1H-pyrazol-5-yl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

$$H_2N$$
 N
 N
 N
 N
 Me

RN 335063-08-6 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-(3-mothyl)-1-abo

RN 335063-09-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-ethyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-10-0 CAPLUS

CN Piperidine, 1-[4-bromo-1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335063-11-1 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)

RN 335063-12-2 CAPLUS

CN Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-11-1 CMF C19 H20 C1 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

CN

RN 335063-13-3 CAPLUS

Pyrimidine, 4-chloro-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2,5-diphenyl- (9CI) (CA INDEX NAME)

RN 335063-14-4 CAPLUS

CN Pyrimidine, 5-bromo-2-chloro-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-15-5 CAPLUS

CN Thieno[2,3-d]pyrimidine, 5-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-16-6 CAPLUS

CN Pyrimidine, 4,5-dimethyl-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

RN 335063-17-7 CAPLUS

CN Pyrimidine, 4-chloro-5-(3-chlorophenyl)-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-18-8 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-19-9 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-18-8 CMF C19 H19 C1 F N5

CM . 2

CMF C2 H F3 O2

RN 335063-20-2 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(2-methylphenyl)- (9CI) (CA INDEX NAME)

RN 335063-21-3 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(4-methylphenyl)- (9CI) (CA INDEX NAME)

RN 335063-22-4 CAPLUS

CN Pyrimidine, 5-(2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-23-5 CAPLUS

CN Pyrimidine, 5-(4-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-24-6 CAPLUS

CN Pyrimidine, 5-(2-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-25-7 CAPLUS

CN Pyrimidine, 5-(3,5-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-26-8 CAPLUS

CN Pyrimidine, 5-(3-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

MeO

RN 335063-27-9 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)

RN 335063-28-0 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 335063-29-1 CAPLUS

CN Pyrimidine, 5-(3-ethoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-30-4 CAPLUS

CN Pyrimidine, 5-(2,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-31-5 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-32-6 CAPLUS

CN Pyrimidine, 5-(3,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-33-7 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

Page 81

RN 335063-34-8 CAPLUS

CN Pyrimidine, 5-(2,3-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-35-9 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-36-0 CAPLUS

CN Pyrimidine, 5-(5-fluoro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-37-1 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-38-2 CAPLUS

CN 2-Pyrimidinamine, 5-(3-chloro-4-fluorophenyl)-N,N-dimethyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-39-3 CAPLUS

CN Morpholine, 4-[5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

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RN 335063-40-6 CAPLUS

CN Pyrimidine, 4-ethoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)

RN 335063-41-7 CAPLUS

CN Pyrimidine, 4-ethoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-40-6 CMF C21 H25 N5 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-42-8 CAPLUS

CN Pyrimidine, 4-methoxy-6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl- (9CI) (CA INDEX NAME)

RN 335063-43-9 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-phenoxy-5-phenyl- (9CI) (CA INDEX NAME)

RN 335063-44-0 CAPLUS

CN Morpholine, 4-[6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-4-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335063-45-1 CAPLUS

CN Morpholine, 4-[6-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-4.

CRN 335063-44-0 CMF C23 H28 N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-46-2 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-phenyl-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)

RN 335063-47-3 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3-chloro-4-fluorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-48-4 CAPLUS

CN Acetamide, N-[4-[1-[5-(3-chloro-4-fluorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335063-49-5 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-4-[4-(1,5-dimethyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-54-2 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335063-55-3 CAPLUS

CN Piperidine, 1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM___1

CMF C18 H21 C1 N6

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-56-4 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & \text{C1} \\ & \text{N} \\ & \text{N} \\ & \text{N} \\ & \text{Me} \end{array}$$

RN 335063-57-5 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335063-56-4 CMF C18 H22 C1 N7

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-58-6 CAPLUS

CN Piperidine, 1-[1-(3-chloro-4-methylphenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335063-59-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chloro-4-methylphenyl)-3-methyl-1H-1,2,4-triazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335063-61-1 CAPLUS

CN Imidazo[1,5-a]pyridine, 5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-3-propyl-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335063-60-0 CMF C19 H25 N5

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-62-2 CAPLUS

CN Imidazo[1,5-a]pyridine, 3-methyl-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

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RN 335063-63-3 CAPLUS

CN Imidazo[1,5-a]pyridine, 5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-3-phenyl- (9CI) (CA INDEX NAME)

RN 335063-64-4 CAPLUS

CN Imidazo[1,5-a]pyridine, 3-(2-chlorophenyl)-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

yl)-1-piperidinyl)- ('9CI') (CA INDEX NAME)

RN 335063-66-6 CAPLUS

CN Imidazo[1,5-a]pyridine, 3-(3-chlorophenyl)-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-67-7 CAPLUS

CN Imidazo[1,5-a]pyridine, 3-(3,5-dichlorophenyl)-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-68-8 CAPLUS

CN Imidazo[1,5-a]pyridine, 3-(4-methoxyphenyl)-5-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-69-9 CAPLUS

CN Acetamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335063-70-2 CAPLUS

CN Acetamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 335063-69-9 CMF C21 H25 Cl N6 O

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 335063-71-3 CAPLUS

CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)

RN 335063-72-4 CAPLUS

CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 335063-73-5 CAPLUS

CN Carbamic acid, [4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]-, 1-methylethyl ester (9CI) (CA INDEX NAME)

RN 335063-74-6 CAPLUS

CN Propanamide, N-[4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)

RN 335063-75-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-methyl-1H-pyrazol-5-yl]-4-piperidinyl]-N,5-dimethyl- (9CI) (CA INDEX NAME)

RN 335063-77-9 CAPLUS

CN Pyrimidine, 5-(2,5-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CL) (CA-INDEX NAME)

RN 335063-78-0 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-79-1 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-nitrophenyl)- (9CI) (CA INDEX NAME)

RN 335063-80-4 CAPLUS

CN Pyrimidine, 5-(1,3-benzodioxol-5-yl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-81-5 CAPLUS

CN Benzoic acid, 3-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335063-82-6 CAPLUS

CN Ethanone, 1-[3-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-pyrimidinyl]phenyl]- (9CI) (CA INDEX NAME)

RN 335063-83-7 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 335063-84-8 CAPLUS

CN Pyrimidine, 5-(2,5-dimethoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-85-9 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(2-naphthalenyl)- (9CI) (CA INDEX NAME)

RN 335063-86-0 CAPLUS

CN Pyrimidine, 5-(3,4-dimethoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-87-1 CAPLUS

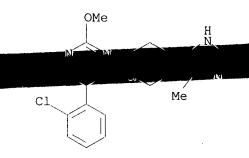
CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)

RN 335063-88-2 CAPLUS

CN Pyrimidine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(1-naphthalenyl)- (9CI) (CA INDEX NAME)

RN 335063-89-3 CAPLUS

CN Pyrimidine, 5-(2-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 335063-90-6 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-91-7 CAPLUS

CN Pyrimidine, 5-(4-chlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-92-8 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 335063-93-9 CAPLUS

CN Pyrimidine, 5-(2,4-dichlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-94-0 CAPLUS

CN Pyrimidine, 5-(3,4-dichlorophenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-95-1 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)

RN 335063-96-2 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA_INDEX_NAME)

RN 335063-97-3 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-98-4 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335063-99-5 CAPLUS

CN Pyrimidine, 5-(2-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-00-1 CAPLUS

CN Pyrimidine, 5-(3-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-01-2 CAPLUS

CN Pyrimidine, 5-(4-chlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-02-3 CAPLUS

CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

RN 335064-03-4 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-04-5 CAPLUS

CN Pyrimidine, 5-(3,4-dichlorophenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-05-6 CAPLUS

CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methylphenyl)- (9CI) (CA INDEX NAME)

RN 335064-06-7 CAPLUS

CN Pyrimidine, 5-(2,5-dimethylphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-07-8 CAPLUS

CN Pyrimidine, 5-(4-fluoro-3-methylphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-08-9 CAPLUS

CN Pyrimidine, 5-(5-chloro-2-methoxyphenyl)-2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-09-0 CAPLUS

CN Pyrimidine, 2-(1-methylethoxy)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 335064-10-3 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]- (9CI) (CA INDEX NAME)

RN 335064-11-4 CAPLUS

CN Morpholine, 4-[5-(2-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-12-5 CAPLUS

CN Morpholine, 4-[5-(3-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-13-6 CAPLUS

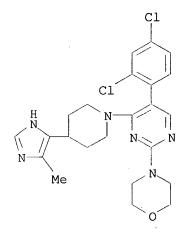
CN Morpholine, 4-[5-(4-chlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-14-7 CAPLUS

CN Morpholine, 4-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethyl)phenyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-15-8 CAPLUS

CN Morpholine, 4-[5-(2,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)



RN 335064-16-9 CAPLUS

CN Morpholine, 4-[5-(3,4-dichlorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-17-0 CAPLUS

CN Morpholine, 4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-(3-methyl-1H-imidazol-4-yl)

methylphenyl)-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-18-1 CAPLUS

CN Morpholine, 4-[5-(2,5-dimethylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-19-2 CAPLUS

CN Morpholine, 4-[5-(4-fluoro-3-methylphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-20-5 CAPLUS

CN Morpholine, 4-[5-(5-chloro-2-methoxyphenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-21-6 CAPLUS

CN Morpholine, 4-[4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-5-[3-(trifluoromethoxy)phenyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 335064-22-7 CAPLUS

CN 1H-Imidazol-2-amine, 4-methyl-5-[1-[5-(3-methylphenyl)-4-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-23-8 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(2,5-dimethylphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335064-24-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(4-fluoro-3-methylphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335064-25-0 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3,4-dichlorophenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335064-26-1 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(5-chloro-2-methoxyphenyl)-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335064-27-2 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[5-(3-chloro-4-fluorophenyl)-2-methoxy-4-pyrimidinyl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335064-28-3 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-29-4 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-28-3

CMF C21 H20 Cl F N6

CRN 76-05-1 CMF C2 H F3 O2

RN 335064-30-7 CAPLUS

CN 2-Pyrimidineacetamide, 5-(3-chloro-4-fluorophenyl)-N-(1,1-dimethylethyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-31-8 CAPLUS

CN 2-Pyrimidineacetamide, 5-(3-chloro-4-fluorophenyl)-N-(1,1-dimethylethyl)-4[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI)
(CA INDEX NAME)

CM 1

CMF C25 H30 Cl F N6 O

CRN 76-05-1 CMF C2 H F3 O2

RN 335064-32-9 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-33-0 CAPLUS

CN Pyrimidine, 5-(3-chloro-4-fluorophenyl)-2-methyl-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-32-9 CMF C20 H21 C1 F N5

CRN 76-05-1 CMF C2 H F3 O2

RN 335064-34-1 CAPLUS

CN 2-Pyrimidineacetic acid, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-35-2 CAPLUS

CN 2-Pyrimidineacetic acid, 5-(3-chloro-4-fluorophenyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 335064-34-1

CME—CO1—UO1—C1—ENISTON

CRN 76-05-1 CMF C2 H F3 O2

RN 335065-05-9 CAPLUS

CN 1H-Imidazol-2-amine, 4-[1-[1-(3-chlorophenyl)-3-(trifluoromethyl)-1H-pyrazol-5-yl]-4-piperidinyl]-5-methyl- (9CI) (CA INDEX NAME)

RN 335065-06-0 CAPLUS

CN Piperidine, 4-(1,5-dimethyl-1H-imidazol-4-yl)-1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

RN 335065-07-1 CAPLUS

CN Piperidine, 1-[4-bromo-1-(2-bromo-5-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]-4-(5-methyl-1H-imidazol-4-yl)- (9CI) (CA INDEX NAME)

RN 335065-08-2 CAPLUS

CN Piperidine, 4-(2-iodo-5-methyl-1H-imidazol-4-yl)-1-[1-(3-methoxyphenyl)-3-methyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)

IT 335064-81-8P 335064-82-9P 335064-94-3P

335064-95-4P 335064-96-5P

RI: RCT (Reactant): SPN (Sym

www. wsc. our mercercocycline sodium/proton exchange inhibitors)

RN 335064-81-8 CAPLUS

CN Pyrimidine, 5-iodo-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-82-9 CAPLUS

CN Pyrimidine, 5-bromo-2-methoxy-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-94-3 CAPLUS

CN Piperidine, 1-[1-(2,4-dichloro-5-methoxyphenyl)-1H-tetrazol-5-yl]-4-[2-[(4-methoxyphenyl)azo]-5-methyl-1H-imidazol-4-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & & \\ MeO & & \\ \hline \\ N & N & \\ N-N & \\ \end{array}$$

RN 335064-95-4 CAPLUS

CN 2-Pyrimidineacetonitrile, 5-bromo-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 335064-96-5 CAPLUS

CN 2-Pyrimidineacetamide, 5-bromo-N-(1,1-dimethylethyl)-4-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

```
t-BuNH-C-CH<sub>2</sub>

N
N
N
N
Me
```

ANSWER 23 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2001:115125 CAPLUS

DOCUMENT NUMBER:

134:178566

TITLE:

Preparation of melanocortin-4 receptor binding

compounds

INVENTOR(S):
PATENT ASSIGNEE(S):

Maguire, Martin P.; Dai, Mingshi; Vos, Tricia J.

Millennium Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 215 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.			KIND DATE					APPLICATION NO.					DATE				
	WO 2001010842 WO 2001010842								WO 2000-US21327					20000804			
	W:	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	BZ, GE, LK,	GH,	GM,	HR,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,
•			•			AZ,		•	•	•	•	•	•	UG,	08,	02,	VN,
	RW:				•		•			•		•	•	AT, PT,	•		
EP	1204					GA, 2002						, ,			0804		
	R:					DK, FI,					IT,	LI,	LU,	NL,	SE,	MC,	PT,
BR 2000012984 A PRIORITY APPLN. INFO.:																	
			11110						US 2	000-	2232	77P	P	2000	0803		
OTHER SO	WO 2000-US21327 W 20000804 OTHER SOURCE(S): MARPAT 134:178566																

The title compds. of formula B-Z-E [wherein B = an anchor moiety; Z = aAB central moiety; E = an MC4-R interacting moiety], e.g. I [wherein P2, P3, and P4 = independently CH, CF, CCl, CBr, C(alkyl), C(alkoxy), C(CN), C(OH), or CI; W1 = covalent bond or CH2; W2 = CH2, CHR3, or CR3R4; W3 = CH2, CHR5, or CR5R6; R = H or alkyl; Z1 = CH or covalently linked to Z2 to form a naphthyl ring; Z2 = CH, C(C.tplbond.CH), CCl, CBr, CI, CF, or covalently linked to Z1 to form a naphthyl ring; Z5 = CH or C(OMe); R3-R6 = independently Me or Et], were prepd. and tested as melanocortin-4 receptor (MC4-R) binding agonists and antagonists. For example, .alpha.-tolunitrile in THF was added to a soln. of diisopropylamine in THF, which had been cooled to -78.degree.C and treated with BuLi. HMPA and 1-chloromethylnaphthalene in THF were added, the reaction cooled and stirred for 1 h, and the reaction quenched with H2O to give 2-(2-naphthalen-1-ylethyl)benzonitrile. Treatment with H2S and 1,3-diaminopropane, followed by heating to 80.degree.C for 72 h and work up, gave II. In a scincillation proximity assay (SPA) using high-throughput receptor binding screening, II showed exemplary inhibition of MC4-R. The invention compds., primarily 2-(2-arylalkylsulfanylphenyl)-4,5-dihydro-1H-imidazole and 1,4,5,6-tetrahydropyrimidine derivs., are useful in the treatment of disorders assocd. with wt. loss and pigmentation (no data).

IT 326484-02-0P

CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(target compd.; prepn. and high throughput MC4-R receptor binding screening of arylalkylsulfanylphenyl-substituted imidazoles and pyrimidines and analogs)

RN 326484-02-0 CAPLUS

Pyrazine, 2-[1,4'-bipiperidin]-1'-yl-3-[[(5-bromo-2-methoxyphenyl)methyl]thio]- (9CI) (CA INDEX NAME)

ANSWER 24 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:725471 CAPLUS.

DOCUMENT NUMBER: 133:281794

TITLE: Preparation of aminopyrimidines as sorbitol

dehydrogenase inhibitors

INVENTOR(S): Chu-moyer, Margaret Yuhua; Murry, Jerry Anthony;

Mylari, Banavara Lakshman; Zembrowski, William James

PATENT ASSIGNEE(S): Pfizer Products Inc., USA SOURCE:

PCT Int. Appl., 328 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

I	PAT	ENT 1	NO.		KII	ND	DATE			A	PPLI	CATI	ои ис	Э.	DATE			
7	WO 2000059510			A1 20001012				WO 2000-IB296					20000316					
		W:	ΑE,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,
			CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,
			IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,
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			SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,
			ΑM,	ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM							
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			DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,
			CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
F	BR 2000009433								BR 2000-9433 20000316 EP 2000-909565 20000316									
I	ΕP	1185	275		A.	1	2002	0313		Ε	P 20	00-9	0956	5	2000	0316		
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
							FI,											
	JP 2002541109				T2 20021203									20000316				
		6414								_	S 20			-	2000	0329		
1	NO	2001	0046	42	Α		2001	1128			0 20				2001			
PRIOR	ITY	APP.	LN.	INFO	.:					US 1	999-	1274	37P	P	1999	0401	•	
											000-	IB29	6 .	W	2000	0316		
OTHER	SO	URCE	(S):			MAR	PAT	133:	2817	94								

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AΒ The title compds. [I; R1 = CHO, COMe; COCH2Me, etc.; R2 = H, alkyl,

Page 121

alkoxy; R3 = II-IV, etc.; R23 = CONR25R26, SO2NR25R26 (wherein R25 = H, alkyl, arylalkylenyl; R26 = arylalkylenyl); R24 = H, alkyl, alkoxycarbonyl, etc.; R27 = H, alkyl; R28, R29 = H, OH, halo, etc.], sorbitol dehydrogenase inhibitors (no data) which are useful in treating or preventing diabetic complications, particularly diabetic neuropathy, diabetic nephropathy, diabetic microangiopathy, diabetic macroangiopathy and diabetic cardiomyopathy, were prepd. and formulated. E.g., a multi-step synthesis of the pyrimidine (R)-V, was given. This invention is also directed to pharmaceutical compns. comprising a combination of the compd. I with an aldose reductase inhibitor and to methods of treating or preventing diabetic complications therewith. This invention is also directed to pharmaceutical compns. comprising a combination of the compd. I with an NHE-1 inhibitor and to methods of treating cardiomyopathy and other heart-related problems therewith.

IT 300548-76-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aminopyrimidines as sorbitol dehydrogenase inhibitors)

RN 300548-76-9 CAPLUS

CN 2-Pyrimidinemethanol, 4,4'-[4,4'-bipiperidine]-1,1'-diylbis[.alpha.-methyl-, (.alpha.R,.alpha.'R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 25 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:725459 CAPLUS

DOCUMENT NUMBER: 133:296373

OCOMENI NOMBER. 133.2903/3

TITLE: Preparation of 3-phenyl-4-

5

(heterocyclylmethyl)pyrrolidine modulators of

chemokine receptor activity

INVENTOR(S): Caldwell, Charles; Chapman, Kevin; Hale, Jeffrey; Kim,

Dooseop; Lynch, Christopher; Maccoss, Malcolm; Mills, Sander G.; Willoughby, Christopher; Berk, Scott; Kim,

Ronald M.

PATENT ASSIGNEE(S):

SOURCE:

Merck and Co., Inc., USA PCT Int. Appl., 202 pp.

CODEN: PIXXD2

09/669298

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. ______ _____ _____ WO 2000059498 Α1 20001012 WO 2000-US9074 20000405 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6498161 В1 20021224 US 2000-543019 20000404 PRIORITY APPLN. INFO.: US 1999-128172P P 19990406 OTHER SOURCE(S): MARPAT 133:296373 GΙ

$$R3$$
 $R2$
 $R4$
 $R5$
 $R5$
 $R6$
 $R1$

ΙI

The title compds. (I) [wherein R1 = CO2H, NO2, tetrazolyl, hydroxyisoxazole, SO2NH(alkyl)R9, or PO3H2; R9 = H, (cyclo)alkyl, benzyl, or (un)substituted phenyl; R2 = (un)substituted piperidinyl, tetrahydropyridinyl, piperazinyl, or 1-oxa-8-azaspiro[4.5]decyl; R3 = (un)substituted Ph or heterocyclyl; R4 = H or (un)substituted alkyl, (alkyl)cycloalkyl, alkenyl, alkynyl, Ph, alkylphenyl, naphthyl, biphenyl, heterocyclyl, cyclohexenyl, etc.; R5 and R6 = independently H-om (un)substituted alkyl; or R4 and R5 move (un)substituted

were added, followed by di-tert-butyldicarbonate, to give II. I showed

binding activity to the CCR-5 or the CCR-3 receptor, generally with IC50 values of < 1 .mu.M. The present invention is directed to compds. which inhibit the entry of human immunodeficiency virus (HIV) into target cells and are of value in the prevention and treatment of HIV infection and the resulting AIDS syndrome (no data). The invention is further directed to compds. which are useful in the prevention or treatment of certain inflammatory and immunoregulatory disorders, including asthma, allergic rhinitis, dermatitis, conjunctivitis, rheumatoid arthritis, and atherosclerosis (no data).

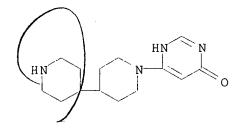
301226-95-9, 6-(4,4'-Bipiperidin-1-yl)-3H-pyrimid-4-one IT hydrochloride

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of 3-phenyl-4-(heterocyclylmethyl)pyrrolidine chemokine receptor modulators by reaction of 3-phenyl-4-formylpyrrolidines with heterocycles)

301226-95-9 CAPLUS RN

4(1H)-Pyrimidinone, 6-[4,4'-bipiperidin]-1-yl-, monohydrochloride (9CI) CN(CA INDEX NAME)



● HCl

REFERENCE COUNT:

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS L20 ANSWER 26 OF 58

1

ACCESSION NUMBER:

2000:631890 CAPLUS

DOCUMENT NUMBER:

133:222737

TITLE:

Preparation of 4-phenyl-4-heteroarylpiperidines as

ligands for opioid receptors

INVENTOR(S):

Liras, Spiros; McHardy, Stanton Furst

PATENT ASSIGNEE(S):

Pfizer Products Inc., USA

SOURCE:

Jpn. Kokai Tokkyo Koho, 34 pp.

CODEN: JKXXA

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	, AF	PLICATION NO.	DATE			
JP 2000247969	A2 20000	0912 JE	2000-44911	20000222			
EP 1038872	A1 20000	0927 EP	2000-300974	20000208			
R: AT, BE,	CH, DE, DK,	ES, FR, GB,	GR, IT, LI, LU	, NL, SE, MC, PT,			
IE, SI,	LT, LV, FI,	RO					
US 6444679	B1 20020	0903 US	2000-503679	2.0000214			

BR 2000000901 20010821

PRIORITY APPLN. INFO.:

US 1999-121156P P 19990222

20000222

BR 2000-901

OTHER SOURCE(S):

MARPAT 133:222737

GΙ

AB The title compds. [I; X, Y = O, N, S, CH; provided that the ring contg. Xand Y is arom. and both X and Y are not simultaneously O or S; n = 0,1; R1 = H, CO-8 alkoxy-CO-8 alkyl (a total C atoms being .ltoreq.8), aryl, aryl-C1-8 alkyl, heteroaryl, heteroaryl-C1-8 alkyl, heterocyclyl, heterocyclyl-C1-8 alkyl, C3-7 cycloalkyl, C3-7 cycloalkyl-C1-8 alkyl, etc.; R2 = H, aryl, halo, heteroaryl, heterocyclyl, SO2R4, COR4, CONR5R6, CO2R4, C(OH)R5R6, etc.; wherein R4, R5, or R6 is selected from group defined in R1 or R5 and R6 together with bonded N or C atom form 3 to 7-membered ring contg. 0-3 heteroatoms selected from O, N, and S; R3 = HO, hydroxy-C1-6 alkyl, C1-6 alkyl-C1-6 alkoxy, NHSO2R7, C(OH)R7R8, halo, heteroaryl, CONHR7; R7, R8 = H, C1-4 alkyl, C1-4 alkoxy, or C1-4 alkoxy-C1-4 alkyl, wherein each alkyl is optionally substituted with 1-7 ${\tt F}$ atom(s); Z1 = H,halo, C1-5 alkyl; provided that two-adjacent ring oxygen or nitrogen atoms or ring O atom adjacent to ring S atom do not exist in heterocyclic or heteroaryl portion] are prepd. These compds. regulate bindings to opioid receptors and are useful for the improvement, prevention, or treatment of various disorders or conditions, e.g. (1) inflammatory diseases such as arthritis, psoriasis, and asthma, (2) disorders of respiratory function such as asthma, coughing, and apnea (breathlessness), (3) allergy, (4) gastrointestinal disorders such as gastritis, functional intestinal disorders, irritable bowel syndromes, functional diarrhea, functional dilation, functional pain, indigestion not forming peptic ulcer, gastrointestinal motility disorders, and vomiting, (5) stroke, (6) shock, (7) brain edema, (8) brain injury, (9) spinal cord injury, (10) brain ischemia, (11) brain failure suffered after heart bypass or transplant surgery, (12) urinary or reproductive tract disorders including incontinence, (13) chem. dependence or addiction, (14) chronic pain, (15) acute or neurol. pain, (16) systemic lupus erythematosus, (17) Hodgkin's disease, (18) Sjoegren disease, (19) epilepsy, and (20) rejection of organ transplant or skin grafting (no data). Thus, oxidn. of N, N-diethyl-2-[4-(3-hydroxymethylphenyl)-1-(2-methylpentyl)piperidin-4yl]pyrimidine-5-carboxamide by tetrapropylammonium perruthenate and N-methylmorpholine N-oxide in CH2Cl2 in the presence of 4.ANG. mol. sieve gave an aldehyde which underwent addn. reaction with methylmagnesium bromide in THF at -70.degree. to give N, N-diethyl-2-[4-[3-(1hydroxyethyl)phenyl]-1-(2-methylpentyl)piperidin-4-yl]pyrimidine-5carboxamide.

IT 291753-96-3P 291753-97-4P 291753-99-6P 291754-01-3P 291754-03-5P 291754-38-6P 291754-39-7P 291754-40-0P 291754-41-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

RN 291753-96-3 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291753-97-4 CAPLUS

CN 5-Pyrimidinecarboxamide, N, N-diethyl-2-[4-(3-hydroxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291753-99-6 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-(2-pyrimidinyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291754-01-3 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-hydroxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291754-03-5 CAPLUS

CN 5-Pyrimidinecarboxamide, 2-[1-(3,6-dimethylpyrazinyl)-4-(3-hydroxyphenyl)-4-piperidinyl]-N,N-diethyl- (9CI) (CA INDEX NAME)

RN 291754-38-6 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[1-(5-fluoro-2-pyrimidinyl)-4-(3-methoxyphenyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291754-39-7 CAPLUS

5_Rvrimidine.carboxamide...NaNadisethwd-24M4M3-methoxwohonwaleladisethw

RN 291754-40-0 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-[4-(trifluoromethyl)-2-pyrimidinyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

RN 291754-41-1 CAPLUS

CN 5-Pyrimidinecarboxamide, N,N-diethyl-2-[4-(3-methoxyphenyl)-1-pyrazinyl-4-piperidinyl]- (9CI) (CA INDEX NAME)

ANSWER 27 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER: 2000:534991 CAPLUS

TITLE:

133:135229

INVENTOR(S):

Preparation of cyclic amino-substituted N-aryl or

N-heteroaryl cyclic amines as antidepressants Poss, Michael A.; Tortolani, David R.; Mattson, Ronald

J.; Yevich, Joseph P.

PATENT ASSIGNEE(S):

Bristol-Myers Squibb Company, USA

SOURCE:

PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----_---------_____ WO 1999-US30501 19991221 WO 2000044376 A1 20000803 W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG US 6225324 20010501 US 1999-467957 B1 19991221 BR 9916618 BR 1999-16618 20011023 Α 19991221 EP 1146871 20011024 EP 1999-968927 Α1 19991221 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2002535365 T2 20021022 JP 2000-595679 19991221 PRIORITY APPLN. INFO.: US 1999-117651P P 19990128 WO 1999-US30501 W 19991221 OTHER SOURCE(S): MARPAT 133:135229 GI

$$z-N$$
 m
 Y

AB The title compds. [I; Z = (un)substituted Ph, benzodioxolone, pyridine, etc.; m, n = 1-3; Y = (un)substituted CH2Ph, indol-3-yl], useful antidepressant agents demonstrating potent inhibition of 5-HT reuptake, were prepd. Thus, reacting 1-(benzodioxol-5-yl)-4-piperidone (prepn. given) with 4-(2-bromo-5-fluorobenzyl)piperidine and NaBH(OAc)3 in THF and AcOH over 4.ANG. sieves afforded 37% II. Compds. I are effective at 5-20

ΙI

286468-23-3P 286468-24-4P 286468-25-5P 286468-26-6P 286468-27-7P 286468-28-8P 286468-29-9P 286468-30-2P 286468-31-3P 286468-33-5P 286468-35-7P 286468-49-3P 286468-51-7P 286468-53-9P 286468-55-1P

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286468-57-3P 286468-59-5P 286468-60-8P
286468-61-9P 286468-63-1P 286468-65-3P
286468-67-5P 286468-69-7P 286468-71-1P
286468-73-3P 286468-75-5P 286468-77-7P
286468-78-8P 286468-79-9P 286468-80-2P
286468-81-3P 286468-82-4P 286468-83-5P
286468-84-6P 286468-91-5P 286468-92-6P
286468-93-7P 286468-94-8P 286468-95-9P
286468-96-0P 286468-97-1P 286468-98-2P
286468-99-3P 286469-00-9P 286469-01-0P
286469-02-1P 286469-03-2P 286469-04-3P
286469-05-4P 286469-08-7P 286469-09-8P
286469-10-1P 286469-11-2P 286469-17-8P
286469-42-9P 286469-45-2P 286469-56-5P
286469-57-6P 286469-58-7P 286469-59-8P
286469-65-6P 286469-66-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
   (prepn. of cyclic amino-substituted N-aryl or N-heteroaryl cyclic
   amines as antidepressants)
286468-20-0 CAPLUS
Pyrimidine, 2-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI)
(CA INDEX NAME)
```

RN

CN

RN 286468-21-1 CAPLUS
CN Pyrimidine, 2-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl](9CI) (CA INDEX NAME)

RN 286468-22-2 CAPLUS
CN Pyrimidine, 2-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI)
(CA INDEX NAME)

RN 286468-23-3 CAPLUS

CN Pyrimidine, 2-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-24-4 CAPLUS

CN Pyrimidine, 2-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-25-5 CAPLUS

CN Pyrimidine, 2-[4-[(2-fluoro-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

Pyrimidine, 2-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'yl]- (9CI) (CA INDEX NAME)

RN 286468-27-7 CAPLUS

CN Pyrimidine, 2-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-28-8 CAPLUS

CN Pyrimidine, 2-chloro-4-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

$$C1$$
 CH_2
 CH_2

RN 286468-29-9 CAPLUS

CN Pyrimidine, 2-chloro-4-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-30-2 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-chloro-

(9CI) (CA INDEX NAME)

RN 286468-31-3 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-chloro-(9CI) (CA INDEX NAME)

RN 286468-33-5 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-chloro- (9CI) (CA INDEX NAME)

RN 286468-35-7 CAPLUS

CN Pyrimidine, 2-chloro-4-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

Cl

RN 286468-49-3 CAPLUS

CN Pyrimidine, 4-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-

methoxy- (9CI) (CA INDEX NAME)

RN 286468-51-7 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 286468-53-9 CAPLUS

CN Pyrimidine, 2-methoxy-4-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-55-1 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-methoxy-(9CI) (CA INDEX NAME)

RN 286468-57-3 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-methoxy- (9CI) (CA INDEX NAME)

RN 286468-59-5 CAPLUS

CN Pyrimidine, 4-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-2-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c} C1 \\ CH_2 \\ N \\ N \end{array}$$

RN 286468-60-8 CAPLUS

CN Pyridazine, 3-chloro-6-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-61-9 CAPLUS

CN Pyridazine, 3-chloro-6-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

F

RN 286468-63-1 CAPLUS

CN Pyridazine, 3-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro-

(9CI) (CA INDEX NAME)

RN 286468-65-3 CAPLUS

CN Pyridazine, 3-chloro-6-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

$$CH_2$$

RN 286468-67-5 CAPLUS

CN Pyridazine, 3-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro-(9CI) (CA INDEX NAME)

RN 286468-69-7 CAPLUS

CN Pyridazine, 3-chloro-6-[4-[(2-fluoro-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-71-1 CAPLUS

CN Pyridazine, 3-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & \\ & & \\ &$$

RN 286468-73-3 CAPLUS

CN Pyridazine, 3-chloro-6-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-75-5 CAPLUS

CN Pyrimidine, 4-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-77-7 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-78-8 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl](9CI) (CA INDEX NAME)

RN 286468-79-9 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-80-2 CAPLUS

CN Pyrimidine, 4-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-81-3 CAPLUS

CN Pyrimidine, 4-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286468-82-4 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286468-83-5 CAPLUS

CN Pyrimidine, 4-methoxy-6-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-84-6 CAPLUS

CN Pyrimidine, 4-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286468-91-5 CAPLUS

CN Pyrazine, [4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-92-6 CAPLUS

RN 286468-93-7 CAPLUS

CN Pyrazine, [4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-94-8 CAPLUS

CN Pyrazine, 2-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286468-95-9 CAPLUS

CN Pyrazine, 2-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy-(9CI) (CA INDEX NAME)

RN 286468-96-0 CAPLUS

CN Pyrazine, 2-methoxy-6-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286468-97-1 CAPLUS

CN Pyrazine, 2-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286468-98-2 CAPLUS

CN Pyrazine, 2-chloro-6-[4-[(2-chlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-(9CI) (CA INDEX NAME)

RN 286468-99-3 CAPLUS

CN Pyrazine, 2-chloro-6-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286469-00-9 CAPLUS

CN Pyrazine, 2-[4-[(2-bromophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro-(9CI) (CA INDEX NAME)

RN 286469-01-0 CAPLUS

CN Pyrazine, 2-chloro-6-[4-[(3-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286469-02-1 CAPLUS

CN Pyrazine, 2-[4-[(2-bromo-5-fluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro-(9CI) (CA INDEX NAME)

RN 286469-03-2 CAPLUS

CN Pyrazine, 2-chloro-6-[4-[(2-fluoro-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 286469-04-3 CAPLUS

CN Pyrazine, 2-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-chloro-(9CI) (CA INDEX NAME)

RN 286469-05-4 CAPLUS

CN Pyrazine, 2-chloro-6-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 \\ \hline \\ N \\ \hline \\ C1 \\ \end{array}$$

RN 286469-08-7 CAPLUS

CN Pyrazine, 2-[4-[(2-bromo-5-methoxyphenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286469-09-8 CAPLUS

CN Pyrazine, [4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

$$C1$$
 CH_2
 N
 N
 N
 N
 N

RN 286469-10-1 CAPLUS

CN Pyrimidine, 4-[4-[(2,5-dichlorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{C1} \\ \text{N} \\ \text{N} \\ \text{OMe} \end{array}$$

RN 286469-11-2 CAPLUS

CN Pyrimidine, 4-[4-[(2,5-difluorophenyl)methyl][1,4'-bipiperidin]-1'-yl]-6-methoxy- (9CI) (CA INDEX NAME)

RN 286469-17-8 CAPLUS

CN Pyridazine, 3-[4-[3-[(2-bromophenyl)methyl]-1-pyrrolidinyl]-1-piperidinyl]-6-chloro- (9CI) (CA INDEX NAME)

$$C1$$
 N
 N
 CH_2

RN 286469-42-9 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(2-chloro-4-pyrimidinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 286469-45-2 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(2-methoxy-4-pyrimidinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

(9CT) (CA INDEX NAME)

RN 286469-57-6 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(6-chloropyrazinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 286469-58-7 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(6-chloro-3-pyridazinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 286469-59-8 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(6-methoxypyrazinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 286469-65-6 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-(1'-pyrazinyl[1,4'-bipiperidin]-4-yl)- (9CI) (CA INDEX NAME)

RN 286469-66-7 CAPLUS

CN 1H-Indole-5-carbonitrile, 3-[1'-(2-pyrimidinyl)[1,4'-bipiperidin]-4-yl]-

(9CI) (CA INDEX NAME)

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 28 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2000:457032 CAPLUS

DOCUMENT NUMBER:

133:89434

TITLE:

Preparation of 3,3-diarylpiperidine and

2,2-biarylmorpholine derivatives as .delta. opioid

ligands.

INVENTOR(S):

Liras, Spiros; Allen, Martin Patrick; Segelstein,

Barbara Eileen

PATENT ASSIGNEE(S):

Pfizer Products Inc., USA

SOURCE:

PCT Int. Appl., 66 pp. CODEN: PIXXD2

Patent

DOCUMENT TYPE: LANGUAGE:

GΙ

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.			KI	ND	DATE			F		CATI			DATE			
WO	2000	0390	91	A	1	2000	0706		И					1999	1201		
	W:	ΑE,	ΑL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,
		CZ,	DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,
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		MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,
		SL,	ТJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	ZW,	AM,	ΑZ,	BY,
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EP	1140	8,35		A	1	2001	1010		E	P 19	99-9	5626	8	1999	1201		
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NO	2001	0032	37	A		2001	0828		N	10 20	01-3	237		2001	0628		
PRIORIT	Y APP	LN.	INFO	.:					US 1	.998-	1140	91P	Ρ	1998	1229		
								1	WO 1	.999-	IB19	14	W	1999	1201		
OTHER S	OTHER SOURCE(S): MARPAT 133:89434																

$$R^2$$
 X
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Title compds. [I; Rl = H, alkoxyalkyl, (substituted) aryl, aralkyl, heteroaryl, heterocyclyl, heteroarylalkyl, etc.; R2 = H, aryl, heteroaryl, heterocyclyl, etc.; R3 = OH, NHSO2R7, O2CR7, CONHR7, etc.; R7 = H, alkyl, alkoxy, alkoxyalkyl; Q = O, CH2; X = CH, N; Z1, Z2 = H, halo, alkyl; with a proviso], were prepd. for treatment of neurol. and gastrointestinal disorders (no data). Thus, 3-bromoanisole was stirred with Mg in THF at 50.degree.; N-benzyl-3-piperidinone in THF was added followed by stirring for 10 h to give 1-benzyl-3-(3-methoxyphenyl)piperidin-3-ol. The latter in ClCH2CH2Cl was treated with PhOH and then with AlCl3 followed by reflux to give 4-[1-benzyl-3-(3-methoxyphenyl)piperidin-3-yl]phenol. This was converted to the triflate, which in MeOH/Me2SO was shaken with Pd(OAc)2 and 1,3-bis(diphenylphosphino)propane under CO at 70.degree. for 4 h to give Me 4-[1-benzyl-3-(3-methoxyphenyl)piperidin-3-yl]benzoate. This was converted to N,N-diethyl-4-[3-(3-methoxyphenyl)piperidin-3-yl]benzamide.

IT 280564-63-8P 280564-64-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 3,3-diarylpiperidine and 2,2-biarylmorpholine derivs. as .delta. opioid ligands)

RN 280564-63-8 CAPLUS

CN 3-Pyridinecarboxamide, N,N-diethyl-6-[1-(5-fluoro-2-pyrimidinyl)-3-(3-hydroxyphenyl)-3-piperidinyl]- (9CI) (CA INDEX NAME)

RN 280564-64-9 CAPLUS

CN 3-Pyridinecarboxamide, N, N-diethyl-6-[3-(3-hydroxyphenyl)-1-(2-pyrimidinyl)-3-piperidinyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 29 OF 58

CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

2000:369024 CAPLUS

DOCUMENT NUMBER:

133:150758

TITLE: AUTHOR(S):

Synthesis of bis(indolylmaleimide) macrocycles Mahboobi, Siavosh; Dechant, Irene; Reindl, Hans; Pongratz, Herwig; Popp, Alfred; Schollmeyer, Dieter

CORPORATE SOURCE:

Faculty of Chemistry and Pharmacy, University,

Regensburg, D-93040, Germany

SOURCE:

Journal of Heterocyclic Chemistry (2000), 37(2),

307-329

CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER:

HeteroCorporation

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 133:150758

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The synthesis of a novel class of macrocyclic bis(indolylmaleimides) was accomplished. The key step involved the intermol. connection of 2,2'-bridged indoles with 3,4-dibromo-2,5-dihydro-1H-2,5pyrroledione(dibromomaleimide) derivs. The bis(indolylmaleimides) afforded by this method were further processed by intramol. nucleophilic substitution of the remaining bromo substituents forming flexible N-substituted macrocycles, e.g., I (R = R1 = pyrrol-1-yl) and I (R = Br,R1 = NH(CH2)2C6H4OH-p); however, connecting both maleimides, semi rigid macrocycles, e.g., II were produced.
- 249763-52-8P 249763-53-9P ΙT

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of bis(indolylmaleimide) macrocycles)

RN 249763-52-8 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3,3'-(1,5-pentanediyldi-1H-indole-2,3-diyl)bis[4-[1,4'-bipiperidin]-1'-yl-1-methyl- (9CI) (CA INDEX NAME)

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249763-53-9 CAPLUS RN

1H-Pyrrole-2,5-dione, 3-[1,4'-bipiperidin]-1'-yl-4-[2-[5-[3-(4-bromo-2,5-CN dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-1H-indol-2-yl]pentyl]-1H-indol-3-yl]-1-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS ANSWER 30 OF 58 ACCESSION NUMBER: 2000:368337 CAPLUS

DOCUMENT NUMBER:

TITLE:

133:4656

Preparation of heteroarylpyrazoles as p38 kinase

inhibitors

INVENTOR(S): Anantanarayan, Ashok; Clare, Michael; Collins, Paul W.; Crich, Joyce Z.; Devraj, Rajesh; Flynn, Daniel L.; Geng, Lifeng; Graneto, Matthew J.; Hanau, Cathleen E.; Hanson, Gunnar J.; Hartmann, Susan J.; Hepperle, Michael; Huang, He; Khanna, Ish K.; Koszyk, Francis J.; Liao, Shuyuan; Metz, Suzanne; Partis, Richard A.;

Perry, Thao D.; Rao, Shashidhar N.; Selness, Shaun Raj; South, Michael S.; Stealey, Michael A.; Talley,

Searched by Barb O'Bryen, STIC 308-4291

John Jeffrey; Vazquez, Michael L.; Weier, Richard M.;

Xu, Xiangdong; Yu, Yi
G.D. Searle & Co., USA
PCT Int. Appl., 1210 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

SOURCE:

Patent English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT ASSIGNEE(S):

	PATENT NO.				KI	ND	DATE			A	PPLI	CATI	N NC	٥.	DATE			
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	BR	9915								R	R 19	99-1	5420		1999	1117		
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MARPAT 133:4656

OTHER SOURCE(S):

GΙ

Title compds. [I; R1 = H, OH, NH2, (cyclo)alk(en)yl, acyl, aryl, etc.; R2 = H, halo, alkyl, alkoxy, (un)substituted piperidinyl, etc.; R3 = pyridyl, pyrimidinyl, quinolyl, etc.; R4 = H, alkyl, heterocyclyl, aryl, etc.] were prepd. by reaction of ketones with hydrazines. Thus, R3CH2COMe (R3 = 4-pyridinyl) was condensed with 3,4-F(MeO)C6H3CHO and the product cyclocondensed with TsNHNH2 to give title compdet TT.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of heteroarylpyrazole p38 kinase inhibitors by cyclocondensation of hydrazines with ketones)

ΙI

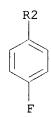
RN 271574-92-6 CAPLUS

Pyridine, 4-[3-(4-fluorophenyl)-5-[4-(1-pyrrolidinyl)-1-piperidinyl]-1H-CN pyrazol-4-yl]-, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



● 3 HCl

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2003 ACS ANSWER 31 OF 58 ACCESSION NUMBER:

DOCUMENT NUMBER:

1999:723034 CAPLUS

131:336939

TITLE:

Indole derivatives and their use in the treatment of malignant and other diseases caused by pathological

INVENTOR(S):

cell proliferation Mahboobi, Siavosh; Kuhr, Sabine; Pongratz, Herwig;

Popp, Alfred; Hufsky, Harald; Bohmer, Frank-d; Teller, Steffen; Uecker, Andrea; Beckers, Thomas

PATENT ASSIGNEE(S):

Asta Medica Aktiengesellschaft, Germany

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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WO 9957117
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             KG, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR,
             UA, UZ, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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     US 2003008898
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                            20030109
                                            US 2002-137653
                                                              20020503
PRIORITY APPLN. INFO.:
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                                                             19980504
                                         DE 1998-19838506 A
                                                             19980825
                                         WO 1999-DE1214
                                                          W 19990422
                                         US 1999-305115
                                                          A3 19990504
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OTHER SOURCE(S):

MARPAT 131:336939

GΙ

AB Indole derivs. I [A = N, O, S; B, B1 = C, N, O, S, bond; X =(un) substituted alkylene, Q; R1, R7, R12 = H, alkyl, aminoalkyl, PhSO2, alkylsilylmethoxymethyl, carbohydrate; R3-R6, R8-R11 = H, (un)substituted alkyl, alkoxy, acyloxy, NO2, halogen; R2R13 = bond, G0, 0x R2,

by pathol. cell proliferation. Thus, 1-phenylsulfonylindole was added to 1-phenylsulfonyl-2-indolecarboxaldehyde to give bis(1-phenylsulfonylindol-2-yl)methanol which was oxidized to the ketone and desulfonylated to give bis(2-indoly1)methanone. This compd. had an IC50 of 1 .mu.M for inhibition of tyrosine phosphorylation.

IT 249763-52-8P 249763-53-9P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of bis(indolyl)methane derivs. as tyrosine kinase inhibitors)

RN 249763-52-8 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3,3'-(1,5-pentanediyldi-1H-indole-2,3-diyl)bis[4-[1,4'-bipiperidin]-1'-yl-1-methyl- (9CI) (CA INDEX NAME)

RN 249763-53-9 CAPLUS

CN 1H-Pyrrole-2,5-dione, 3-[1,4'-bipiperidin]-1'-yl-4-[2-[5-[3-(4-bromo-2,5-dihydro-1-methyl-2,5-dioxo-1H-pyrrol-3-yl)-1H-indol-2-yl]pentyl]-1H-indol-3-yl]-1-methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 1999:404954 CAPLUS

DOCUMENT NUMBER:

131:44821

TITLE:

Preparation of 1-(1H-imidazol-2-yl)pyrrolidine and 1-(1H-imidazol-2-ylpiperidine derivatives and their

affinity with histaminergic H3 receptors

INVENTOR(S):

Jegham, Samir; Saady, Mourad; Yaiche, Philippe;

Horter, Laurence

PATENT ASSIGNEE(S):

SOURCE:

Sanofi-Synthelabo, Fr. PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	PATENT NO.					DATE APPLICATION NO. DATE											
WO	9931	 089		 A	1	1999	0624		W	0 19	98-FI	R267	- <i>-</i> 7	 1998:	1210		
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		KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,
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		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	ΒY,	KG,	ΚZ,	MD,	RU,
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OTHER SOURCE(S):

MARPAT 131:44821

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AΒ The title compds. I [R = H, Ph group optionally substituted by a halo atomor a Me, methoxy, trifluoromethyl or nitro group; X = H, halo, Me, methoxy, trifluoromethyl, nitro; n = 1, 2; m = 0, 1, were prepd. E.g., I (R = Ph, X = H, n = 2, m = 0) was prepd. Affinity of I with histaminergic H3 receptors was measured.

Ι

IT 227313-11-3P 227313-12-4P 227313-13-5P 227313-14-6P 227313-15-7P 227313-16-8P

227313-17-9P 227313-18-0P 227313-19-1P

227313-20-4P 227313-21-5P 227313-43-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of imidazolylpyrrolidines and imidazolylpiperidines and their affinity for histaminergic H3 receptors)

RN 227313-11-3 CAPLUS

Piperidine, 1-(4,5-diphenyl-1H-imidazol-2-yl)-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

RN 227313-12-4 CAPLUS

CN Piperidine, 1-[4,5-bis(4-methoxyphenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 227313-13-5 CAPLUS

CN Piperidine, 1-[4,5-bis(4-chlorophenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

2 HCl

RN 227313-14-6 CAPLUS

CN Piperidine, 1-[4,5-bis(4-methylphenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

RN

227313-15-7 CAPLUS
Piperidine, 1-[4-(4-chlorophenyl)-5-phenyl-1H-imidazol-2-yl]-4-(1H-CN imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

227313-16-8 CAPLUS RN

CN Piperidine, 1-[4,5-bis[4-(trifluoromethyl)phenyl]-1H-imidazol-2-yl]-4-(1Himidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

RN227313-17-9 CAPLUS

Piperidine, 4-(1H-imidazol-4-yl)-1-[4-(4-methoxyphenyl)-5-phenyl-1H-CN imidazol-2-yl]-, dihydrochloride (9CI) (CA INDEX NAME)

RN 227313-18-0 CAPLUS

CN Piperidine, 1-[4-(4-fluorophenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HCl

RN 227313-19-1 CAPLUS

CN Piperidine, 1-[4-(4-chlorophenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & H & H \\ N & N & N \end{array}$$

●2 HCl

RN 227313-20-4 CAPLUS

CN Piperidine, 4-(1H-imidazol-4-yl)-1-(4-phenyl-1H-imidazol-2-yl)-, dihydrochloride (9CI) (CA INDEX NAME)

RN 227313-21-5 CAPLUS

CN Piperidine, 4-(1H-imidazol-4-yl)-1-[4-(4-methoxyphenyl)-1H-imidazol-2-yl]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 227313-43-1 CAPLUS

CN Piperidine, 1-[4-(4-fluorophenyl)-1H-imidazol-2-yl]-4-(1H-imidazol-4-yl)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 227313-42-0 CMF C17 H18 F N5

$$\begin{array}{c|c} F & & & \\ & N & & \\ \hline & N & & \\ \end{array}$$

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

CO₂H

REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

Searched by Barb O'Bryen, STIC 308-4291

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 33 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1999:126899 CAPLUS

DOCUMENT NUMBER:

130:196661

TITLE:

Preparation of 4-aminopyrrolo[3,2-d]pyrimidines as

neuropeptide Y receptor antagonists Dow, Robert Lee; Hammond, Marlys

INVENTOR(S): PATENT ASSIGNEE(S):

Pfizer Products Inc., USA

PCT Int. Appl., 60 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.		KI	ND	DATE			A	PPLI	CATI	ои ис	o.	DATE			
WO	9907	 703		A	1	1999	0218		W	0 19	98-II	B105	3	19980	0710		
														CN,		CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GE,	HU,	ID,	IL,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,
		LC,	LK,	LR,	LŞ,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	ТJ,	TM,	TR,	TT,	UA,	ŪG,	US,	UZ,
		VN,	YU,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM					
	RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	ΒĖ,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
							NE,										
	9879																
EP	1003																
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	ΝL,	SE,	PT,	ΙE,
															•		
	9811																
	2001																
	9806									A 19	98-6	968		19980	0804		
US	6187	778		В	1	2001	0213		U.					19990	0907		
NO	9906	178		A		2000	0214		N	0 19	99-6	178		1999:	1214		
PRIORIT	Y APP	LN.	INFO	. :				1	US 1	997-	5473	4 P	P	1997	0805		
										998-	IB10	53	W	1998	0710		
OTHER S	OURCE	(S):			MAR	PAT	130:	1966	61								

GΙ

The title compds. [I; B, D, E = CR1, CR9, N; .gtoreq.1 of B, D, E = CR1; AB .gtoreq.1 of B, D, E = N; F, G = N, NR4, CR5; .gtoreq.1 of F, G = N or NR4; 1 of the dotted lines represents a bond and the other represents no bond; R1, R3-R5, R9 = H, C1-6 (thio)alkyl, C1-6 alkoxy, C2-6 alkenyl, C2-6 alkynyl, (CH2)nC3-7 cycloalk(en)yl; (un)substituted alkylaryl, etc.; R2 = NR6R7, N-contg. heterocyclyl, etc.; R6, R7 = H, C1-6 alkyl, etc.; n = 0-6; with provisos], which selectively bind at human neuropeptide Y receptors

and are useful for the manuf. of drugs for treatment of conditions assocd. with an excess of neuropeptide Y (no data), were prepd. and approx. 20 specific I were claimed. For example, refluxing for 1 h a mixt. of 70 mg 6-methyl-4-pyrrolidin-1-ylpyridine-2, 3-diamine and 0.082 g cyclohexanecarboxaldehyde in 1.8 mL PhNO2 gave 36 mg II.

IT 220761-54-6P

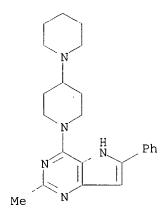
CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of 4-aminopyrrolo[3,2-d]pyrimidines as neuropeptide Y receptor antagonists)

RN 220761-54-6 CAPLUS

5H-Pyrrolo[3,2-d]pyrimidine, 4-[1,4'-bipiperidin]-1'-yl-2-methyl-6-phenyl-(9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LTO ANSWER 34 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:708818 CAPLUS

DOCUMENT NUMBER: 129:316229

TITLE: Novel carboxamides as platelet aggregation inhibitors

INVENTOR(S): Carceller, Elena; Jimenez, Pere J.; Salas, Jorge

PATENT ASSIGNEE(S): J. Uriach & Cia. S.A., Spain

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	rent	NO.		KI	ND	DATE			A.	PPLI	CATI	ои ис	ο.	DATE			
									_								
WO	9846	599 _.		A	1	1998:	1022		W	O 19	98-E	P222	6	1998	0416		
	W:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
•		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	GW,	HU,	ID,	IL,	IS,	JP,	KE,	KG,
		KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,
		UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM

CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9875263 A1 19981111 AU 1998-75263 19980416 PRIORITY APPLN. INFO.: ES 1997-807 19970416

ORITY APPLN. INFO.: ES 1997-807 19970416 WO 1998-EP2226 19980416

OTHER SOURCE(S): MARPAT 129:316229

GI

$$R^{4}$$
 Y^{2}
 Y^{2

N S CONHCH
$$_2$$
CH $_2$ CO $_2$ H CHMe $_2$ II

Carboxamides I [one of Y1 or Y2 = N and the other = NR5, O, S, or one of Y1 or Y2 = S and the other = CR5; m = 0, 1, 2; A = bond, (un)substituted CH2, CH2CH2; B = CO2H or a metabolically labile ester or amide thereof; R1 = H, (un)substituted alkyl, alkoxy, cycloalkyl, aryl, heteroaryl, sulfonylamino, acylamino, ureido, amino; R2, R5 = H, alkyl; R3 = H, (un)substituted alkyl, alkoxy, cycloalkyl, aryl, heteroaryl, sulfonylamino, acylamino, ureido, amino, (un)substituted CO2H, carbamoyl; R4 = substituted N heterocyclyl] are platelet aggregation inhibitors and are useful for the treatment or prevention of thromboembolic disorders. Pharmaceutical compns. including these compds. and processes for their prepn. are also provided. Thus, the thiazole II was prepd. from 4-(4-pyridyl)piperazine, Me3CNCS, Me2CHCOCHCLCO2Et, and H2NCH2CH2CO2CMe3 in 6 steps. II had a platelet aggregation inhibiting IC50 of 0.65 .mu.M. - IT 214837-63-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylthiazolylcarbonylaminopropionic acids as platelet aggregation inhibitors)

RN 214837-63-5 CAPLUS

CN L-Alanine, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-N-(phenylsulfonyl)-, dihydrochloride (9CI) (CAINDEX NAME)

Absolute stereochemistry.

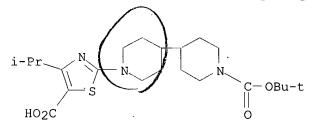
IT 214836-34-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of piperazinylthiazolylcarbonylaminopropionic acids as platelet aggregation inhibitors)

RN 214836-34-7 CAPLUS

CN [4,4'-Bipiperidine]-1-carboxylic acid, 1'-[5-carboxy-4-(1-methylethyl)-2-thiazolyl]-, 1-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)



IT 214836-36-9P 214836-37-0P 214837-64-6P

214837-65-7P 214837-66-8P 214837-83-9P

214837-84-0P 214837-88-4P 214840-35-4P

214840-36-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of piperazinylthiazolylcarbonylaminopropionic acids as platelet aggregation inhibitors)

RN 214836-36-9 CAPLUS

.beta.-Alanine, N-[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]-, bis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 214836-35-8 CMF C20 H32 N4 O3 S

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 214836-37-0 CAPLUS

CN Propanoic acid, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-2-methyl- (9CI) (CA INDEX NAME)

RN 214837-64-6 CAPLUS

CN L-Alanine, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-N-[(4-methoxyphenyl)sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 214837-65-7 CAPLUS

CN L-Alanine, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-N-(2-thienylcarbonyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 214837-66-8 CAPLUS

CN L-Alanine, N-benzoyl-3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-, dihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

•2 HCl

RN 214837-83-9 CAPLUS

CN 1-Piperazinecarboxylic acid, 4-[1-[5-carboxy-4-(1-methylethyl)-2-thiazolyl]-4-piperidinyl]-, 1-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

RN 214837-84-0 CAPLUS

CN L-Alanine, 3-[[[4-(1-methylethyl)-2-[4-(1-piperazinyl)-1-piperidinyl]-5-thiazolyl]carbonyl]amino]-N-(phenylsulfonyl)-, trihydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

3 HCl

RN 214837-88-4 CAPLUS

CN L-Alanine, 3-[[[4-(1-methylethyl)-2-[4-(1-piperazinyl)-1-piperidinyl]-5-thiazolyl]carbonyl]amino]-N-(phenylacetyl)-, trihydrochloride (9CI) (CA

Absolute stereochemistry.

●3 HC1

RN 214840-35-4 CAPLUS

CN L-Alanine, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-N-(butoxycarbonyl)- (9CI) (CA INDEX NAME)

Liu

Absolute stereochemistry.

RN 214840-36-5 CAPLUS

CN L-Alanine, 3-[[[2-[4,4'-bipiperidin]-1-yl-4-(1-methylethyl)-5-thiazolyl]carbonyl]amino]-N-(2-thienylacetyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

09/669298 Liu Page 167

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 35 OF 58 CAPLUS COPYRIGHT 2003 ACS 1997:617929 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

127:262609

TITLE:

Novel N-substituted 4-[[(4'-

aminobenzoyl)oxy]methyl]piperidines having gastric

prokinetic properties

INVENTOR(S):

Bosmans, Jean Paul Rene Marie Andre; Love, Christopher

John; Verdonck, Marc Gustaaf Celine; Schuurkes,

Joannes Adrianus Jacobus

PATENT ASSIGNEE(S):

Janssen Pharmaceutica N.V., Neth.; Bosmans, Jean Paul Rene Marie Andre; Love, Christopher John; Verdonck, Marc Gustaaf Celine; Schuurkes, Joannes Adrianus

Jacobus

SOURCE:

PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT	NO.		KI	D	DATE			A	PPLI	CATIO	и ис	0.	DATE				
WO	9731	897		A:	1.	1997	0904		W	0 19	97-E	P585		1997	0207			
•	W:	AL,	AM,	AU,	BB,	BG,	BR,	CA,	CN,	CU,	CZ,	EE,	GE,	HU,	IL,	IS,	JP,	
		KG,	KR,	LC,	LK,	LR,	LT,	LV,	MD,	MG,	MN,	MX,	NO,	NZ,	PL,	RO,	SG,	
		SI,	SK,	TR,	TT,	UA,	US,	UZ,	VN,	ΑM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ΤJ,	TM
	RW:	KE,	LS,	MW,	SD,	SZ,	ÜG,	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	
		ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	ML,	
		MR,	NE,	SN,	TD,	ΤG												
														1997				
														1997				
									A	U 19	97-1	7678		1997	0207			
	7244																	
EP	8851	90		A.	1	1998	1223		E	P 19	97-9	0324	6	1997	0207			
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	PT,	ΙE,	
			LT,															
	2000													1997	0207			
ZA	9701	735		Α		1998	0827		Z	A 19	97-1	735		1997				
														1998				
US	2002	0424	30	A.	1	2002	0411		U	S 20	01-9	3309	4	2001	0820			
PRIORITY	Y APP	LN.	INFO	.:					EP 1	996-	2005	25	Α	1996	0229		•	
								1	WO 1	997-	EP58	5	W	1997	0207			
										998-	1259	01	A1	1998	0827			
OTHER SO	DURCE	(S):			MAF	RPAT	127:	2626	09									

GI

$$\begin{array}{c|c} & & & \\ & & \\ N & & \\$$

AΒ The invention concerns compds. I and their N-oxides, pharmaceutically acceptable acid addn. salts, and stereochem. isomeric forms [wherein R1 = alk(en/yn)yloxy; R2 = H or alkoxy; or R1R2 = O(CH2)1-30 or O(CH2)2-4,optionally mono- or disubstituted with alkyl; R3 = H, halo; L = cycloalkyl, cycloalkanone, alkenyl, (un)substituted aralkenyl, (un) substituted alkyl, esp. bearing certain heterocyclic nuclei]. Also disclosed are processes for prepg. the compds., formulations comprising them, and their medical use, in particular for treating conditions related to impaired gastric emptying. For example, condensation of 1-(2-aminoethyl)-4-piperidinemethanol with 2-chloro-3-methylpyrazine in the presence of CaO (29%), and esterification of the alc. product (as the Na salt) with the corresponding acid using 1,1'-carbonylbis-1H-imidazole as the activating agent (33%), gave title compd. II. In a test for acceleration of lidamidine-delayed gastric emptying in conscious dogs, II at 0.04 mg/kg gave a 41% acceleration.

II

IT 196308-29-9P

CN

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; prepn. of [[(aminobenzoyl)oxy]methyl]piperidines as gastroprokinetic agents)

RN 196308-29-9 CAPLUS

[1,4'-Bipiperidine]-4-methanol, 1'-(3-methylpyrazinyl)- (9CI) (CA INDEX NAME)

IT 196308-04-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of [[(aminobenzoyl)oxy]methyl]piperidines as gastroprokinetic

agents)

196308-04-0 CAPLUS RN

1,4-Benzodioxin-5-carboxylic acid, 8-amino-7-chloro-2,3-dihydro-, CN [1'-(3-methylpyrazinyl)[1,4'-bipiperidin]-4-yl]methyl ester (9CI) INDEX NAME)

PAGE 1-A

PAGE 2-A

ANSWER 36 OF 58 CAPLUS COPYRIGHT 2003 ACS

CCESSION NUMBER:

1997:532189 CAPLUS

DOCUMENT NUMBER:

127:176434

TITLE:

Angiogenesis inhibiting pyridazinamines

INVENTOR(S):

Stokbboekx, Raymond Antoine; Van Der Aa, Marcel Jozef

Maria; Willems, Marc; Meerpoel, Lieven; Luyckx, Marcel

Gerebernus Maria; Tuman, Robert W.

PATENT ASSIGNEE(S):

Janssen Pharmaceutica N.V., Neth.; Stokbroekx, Raymond

Antoine; Van Der Aa, Marcel Jozef Maria; Willems, Marc; Meerpoel, Lieven; Luyckx, Marcel Gerebernus

Maria; Tuman, Robert W.

PCT Int. Appl., 41 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

SOURCE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	CENT 1								A	PPLI	CATI	ON N	Ó.	DATE				
	9726								W	0 19	97-E	P201		1997	0114			
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														ΝŻ,				
														ΚZ,				
	RW:													FI,				
		ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	ML,	
				SN,												-		
CA	2237	273		A	A	1997	0724		C.	A 19	97-2	2372	73	1997	0114			
	9714																	
	7177																	
ZA	9700	288		A		1998	0714		Z	A 19	97-2	88		1997	0114			
EΡ	8763	66		A.	2	1998	1111		E	P 19	97-9	0105	9	1997	0114			
EΡ	8763	66		В	1	2001	0725									•		
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						RO												
CN	1208	415		Α		1999	0217		C	N 19	97-1	9170	5	1997	0114			
JP	2000	5030:	14	\mathbf{T}	2	2000	0314		J.	P 19	97-5	2465	6	1997	0114			
	1244													1997				
AT	2035	34		E		2001	0815		A ^t	г 19	97-9	0105	9	1997	0114			
ES	2162	235		\mathbf{T}	3	2001	1216		E	S 19	97-9	0105	9	1997	0114			
NO	9802	037		Α		1998	0915		N	O 19	98-2	037		1998	0505			
US	5985	878		Α		1999	1116		Ü	S 19	98-1	1907	5	1998	0709			
RIORITY	APP	LN.	INFO	. :				1	EP 1	996-	2000	85	Α	1996	0115			
								Ī	WO 1	997-	EP20	1	W	1997	0114			
THER SO	DURCE	(S):			MAR	PAT.	127:	1764	34									

$$\begin{array}{c|c}
R^2 & R^3 \\
N & N = N
\end{array}$$

$$\begin{array}{c|c}
R^3 & R^4 R^5
\end{array}$$

GΙ

Title compds. I [R1 = H, alkyl, alkoxy, alkylthio, amino, aryl, cycloalkyl, CH2OH, CH2OCH2Ph; R2, R3 = H; R2R3 = CH:CHCH:CH; NR4R5 = heterocyclic] were prepd. Thus, 3-chloro-6-methylpyridazine was treated with SOC12 and HN:CHMeNH2.HCl to give the chloropyridazinylthiadiazole which was treated with 1-(3-trifluoromethylphenyl)piperazine to give I [R1 = Me, R2, R3 = H, NR4R5 = 4-(3-trifluoromethylphenyl)piperazino]. This compd. had an in vitro angiogenesis inhibiting IC50 of 0.3 nM.

Ι

IT 193955-49-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

CN Pyridazine, 3-(3-methyl-1,2,4-thiadiazol-5-yl)-6-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

IT 193957-13-0P 193957-20-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thiadiazolylpyrazinylamines as angiogenesis inhibitors)

RN 193957-13-0 CAPLUS

CN Pyridazine, 3-[4-[4-(3,5-dichlorophenyl)-1-piperazinyl]-1-piperidinyl]-6-(3-methyl-1,2,4-thiadiazol-5-yl)- (9CI) (CA INDEX NAME)

RN 193957-20-9 CAPLUS

CN Pyridazine, 3-[4-[4-[3,5-bis(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]-6-(3-methyl-1,2,4-thiadiazol-5-yl)- (9CI) (CA INDEX NAME)

IT 193955-50-9P 193955-52-1P 193955-53-2P 193956-37-5P 193957-14-1P 193957-15-2P

193957-16-3P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of thiadiazolylpyrazinylamines as angiogenesis inhibitors)

RN 193955-50-9 CAPLUS

CN Pyridazine, 3-(3-methyl-1,2,4-thiadiazol-5-yl)-6-[4-[1-oxido-4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 193955-52-1 CAPLUS

CN Pyridazine, 3-(3-methyl-1,2,4-thiadiazol-5-yl)-6-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]-, 2-oxide (9CI) (CA INDEX NAME)

RN 193955-53-2 CAPLUS

CN Pyridazine, 3-(3-methyl-1,2,4-thiadiazol-5-yl)-6-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]-, 1-oxide (9CI) (CA INDEX NAME)

RN 193956-37-5 CAPLUS

CN Pyridazine, 3-(3-methyl-1,2,4-thiadiazol-5-yl)-6-[4-[3-(trifluoromethyl)phenyl][1,4'-bipiperidin]-1'-yl]- (9CI) (CA INDEX NAME)

RN 193957-14-1 CAPLUS

CN Pyridazine, 3-(1,2,4-thiadiazol-5-yl)-6-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 193957-15-2 CAPLUS

CN Pyridazine, 3-[3-[(phenylmethoxy)methyl]-1,2,4-thiadiazol-5-yl]-6-[4-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

CN 4-Piperidinol, 1-[6-(3-methyl-1/2,4-thiadiazol-5-yl)-3-pyridazinyl]-3-[4-[3-(trifluoromethyl)phenyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)

ANSWER 37 OF 58 CAPLUS COPYRIGHT 2003 ACS CCESSION NUMBER: 1996:662453 CAPLUS

DOCUMENT NUMBER: 126:31322

TITLE: Novel barbituric acid derivatives, uracil-pyridinium

salts and polycondensed oxopyrimidines

AUTHOR(S): Schmidt, Andreas; Hetzheim, Annemarie; Albrecht, Dirk

CORPORATE SOURCE: Institut Organische Chemie, Ernst-Moritz-Arndt-

Universitaet Greifswald, Greifswald, D-17489, Germany

SOURCE: Heterocycles (1996), 43(10), 2153-2167

CODEN: HTCYAM; ISSN: 0385-5414

PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

AB Nucleophilic substitution of the 6-chloropyrimidines I (R = H, Me; R1 = H) with piperidine, morpholine, 4-(piperidin-1-yl)piperidine, and 4-(dimethylamino)pyridine yielded the corresponding 6-amino-substituted

pyrimidines. The barbiturates II (R = Me, X = CH, CMe; R = Me, X = N)were formed either starting from the chloro aldehyde I (R = Me, R1 = CHO), or by applying Knoevenagel reaction to 1,3-dimethylpyrimidine-(1H,3H)-2,4,6-trione with 2-formylaminohetarenes. Cyclocondensation of the chloro aldehyde I (R = H, R1 = CHO) with 2-aminopyridines resulted in the formation of the tricycle III which is also accessible by initial Knoevenagel reaction of 3-methylpyrimidine-(1H,3H)-2,4,6-trione (IV) and subsequent cyclization of the resulting barbiturates II (R = H, X = CH, CMe). Analogously, the new ring system, dipyrimidopyrimidinedione V was formed upon treatment of IV with 2-(formylamino)pyrimidine and subsequent cyclization.

IΤ 184290-23-1P 184290-24-2P

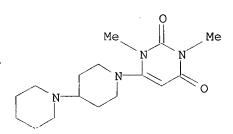
RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of barbituric acid, uracil-pyridinium salt, and polycondensed oxopyrimidine derivs.)

RN 184290-23-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 6-[1,4'-bipiperidin]-1'-yl-3-methyl- (9CI) (CA INDEX NAME)

RN 184290-24-2 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 6-[1,4'-bipiperidin]-1'-yl-1,3-dimethyl- (9CI) (CA INDEX NAME)



L20 ANSWER 38 OF 58 CAPLUS COPYRIGHT 2003 ACS

A¢CESSION NUMBER:

1996:466913 CAPLUS

DOCUMENT NUMBER:

125:142726

TITLE: INVENTOR(S): Muscarine antagonists

Thompson, Wayne J.; Sugrue, Michael F.; Ransom,

Richard W.; Mallorga, Pierre J.; Bell, Ian M.; Smith,

Anthony M.

PATENT ASSIGNEE(S):

Merck and Co., Inc., USA

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

LZO ANSWER 39 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1996:407459 CAPLUS

DOCUMENT NUMBER: 125:96333

DOCUMENT NUMBER: 123:96333

TITLE: Assay and purity control of new serotonergic anxiolytics by HPTLC and scanning densitometry Farina, Anna; Doldo, Antonio; Cotichini, Viviana;

Rajevic, Maya

CORPORATE SOURCE: Lab. Chimica Farmaco, Ist. Sup. Sanita, Rome, 00161,

Italy

SOURCE: Journal of Planar Chromatography--Modern TLC (1996),

9(3), 185-188

CODEN: JPCTE5; ISSN: 0933-4173

PUBLISHER: Research Institute for Medicinal Plants

DOCUMENT TYPE: Journal LANGUAGE: English

AB A high-performance TLC (HPTLC) method with densitometric UV detection was used for the detn. and purity control of serotonergic anxiolytics. With silica gel as adsorbent and 3 different mobile phases, all the potential impurities were well sepd. from the main components and from each other. Detection limits of a few nanograms were obtained at a signal-to-noise ratio 3:1. The relative std. deviation values for the main components and related impurities were between 2.2 and 3.4%. The results obtained were compared with those obtained by a previously established HPLC method.

IT 178948-99-7

RL: ANT (Analyte); ANST (Analytical study)

(purity control of serotonergic anxiolytics by HPTLC and densitometry)

RN 178948-99-7 CAPLUS

CN Pyrimidine, 2,2'-(1,4-piperidinediyl)bis- (9CI) (CA INDEX NAME)

20 ANSWER 40 OF 58 CAPLUS COPYRIGHT 2003 ACS

CCÈSSION NUMBER: 1994:508848 CAPLUS

DOCUMENT NUMBER: 121:108848

TITLE: Pyrimidines useful in treatment of neurological

disorders

INVENTOR(S): Awaya, Akira; Horikomi, Kazutoshi; Sasaki, Tadayuki;

Kobayashi, Hisashi; Mizuchi, Akira; Nakano, Takuo; Tomino, Ikuo; Araki, Shintaro; Takesue, Mitsuyuki; et

al.

PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan; Mitsui

Pharmaceuticals, Inc.

SOURCE: U.S., 29 pp. Cont.-in-part of U.S. Ser. No. 347,892,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

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PATENT NO.
                      KIND
                            DATE
                                           APPLICATION NO.
                                                             DATE
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    WO 9613262
                       Α1
                            19960509
                                           WO 1995-US13710
                                                            19951024
             AL, AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP,
             KG, KR, KZ, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO,
             RU, SG, SI, SK, TJ, TM, TT, UA, US, US, UZ
         RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE,
             IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR,
                     TD, TG
             NE, SN,
     US 5574044
                            19961112
                                            US 1994-329757
                       Α
                                                             19941027
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                            19971125
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                                                             19950512
    CA 2200468
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                                           CA 1995-2200468
                                                             19951024
    AU 9539674
                       A1
                            19960523
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                                                             19951024
    AU 701127
                       B2
                            19990121
                                                             19951024
    EP 786997
                       Α1
                            19970806
                                           EP 1995-937615
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
         R:
     JP 2002515008
                       T2
                            20020521
                                           JP 1996-514691
                                                            19951024
                                        US 1994-329757
                                                         A2 19941027
PRIORITY APPLN. INFO.:
                                        US 1995-440153
                                                          A2 19950512
                                        WO 1995-US13710 W 19951024
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OTHER SOURCE(S): MARPAT 125:142726

AB Compds., 1,3-dihydro-1-{1-[piperidin-4-yl]piperidin-4-yl}-2H-benzimidazol-2-ones and 1,3-dihydro-1-{4-amino-1-cyclohexyl}-2H-benzimidazol-2-ones and derivs. thereof, their prepn., method of use and pharmacetical compns. are described. These compds. are endowed with antimuscarinic activity and are useful in the treatment and/or prevention of myopia (commonly known as nearsightedness).

IT 179322-92-0P 179322-93-1P 179323-11-6P

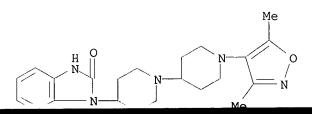
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 179322-92-0 CAPLUS

CN 2H-Benzimidazol-2-one, 1,3-dihydro-1-[1'-(5-isoxazolyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 179322-93-1 CAPLUS

CN 2H-Benzimidazol-2-one, 1-[1'-(3,5-dimethyl-4-isoxazolyl)[1,4'-bipiperidin]-4-yl]-1,3-dihydro-(9CI) (CA INDEX NAME)



RN 179323-11-6 CAPLUS

CN 2H-Benzimidazol-2-one, 1-[1'-(4,5-dihydro-3-methyl-1H-pyrazol-1-yl)[1,4'-bipiperidin]-4-yl]-1,3-dihydro-(9CI) (CA INDEX NAME)

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5304555	A	19940419	US 1990-600171	19901019
CN 1079742	А	19931222	CN 1993-103112	19930317
PRIORITY APPLN.	INFO.:		JP 1987-210170	19870826
			US 1989-347892	19890425
			CN 1988-106967	19880826

OTHER SOURCE(S):

MARPAT 121:108848

GI

AB Pyrimidine compds. and their pharmaceutically acceptable salts were disclosed. The compds. are useful for neurol. diseases of the peripheral and central nervous systems of animals. An example compd., 5,7-dihydro-7-methyl-2-(1-piperidinyl)-6H-pyrrolo[2,3-d]pyrimidin-6-one (I) was prepd. The biol. activity of I was higher than that of isaxonine or mecobalamin.

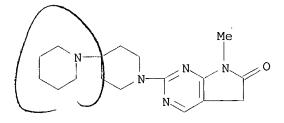
IT 122113-24-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as central nervous system agent)

RN 122113-24-0 CAPLUS

CN 6H-Pyrrolo[2,3-d]pyrimidin-6-one, 2-[1,4'-bipiperidin]-1'-yl-5,7-dihydro-7-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L20 ANSWER 41 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1994:435609 CAPLUS

DOCUMENT NUMBER: 121:35609

OCOMENT NUMBER: 121:35005

TITLE: Preparation of 2-[4-(4-imidazolyl)piperidino]benzimida

zoles as serotoninergic receptor antagonists

INVENTOR(S): Jegham, Samir; Defosse, Gerard; Purcell, Thomas PATENT ASSIGNEE(S): Synthelabo S. A., Fr.

Synthelabo S. A., Fr. Eur. Pat. Appl., 13 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

SOURCE:

LANGUAGE: French FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

GI

PAT	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP	591026				19930920
	R: AT, BE, C	H, DE,	DK, ES, FR,	GB, GR, IE, IT, LI,	LU, MC, NL, PT, SE
FR	2696176	A1	19940401	FR 1992-11550	19920928
FR	2696176	B1	19941110		
CA	2107060	AA	19940329	CA 1993-2107060	19930927
FI	9304220	Α	19940329	FI 1993-4220	19930927
NO	9303434	A	19940329	NO 1993-3434	19930927
AU	9348605	A1	19940414	AU 1993-48605	19930927
AU	659033	B2	19950504		
ZA	9307155	Α	19940523	ZA 1993-7155	19930927
CN	1087340	Α	19940601	CN 1993-118081	19930927
HU	65396	A2	19940628	HU 1993-2726	19930927
JP	06192254	A2	19940712	JP 1993-239568	19930927
US	5418241	A	19950523	US 1993-127058	19930927
\mathtt{PL}	172852	В1	19971231	PL 1993-300514	19930927
PRIORITY	Y APPLN. INFO.:			FR 1992-11550	19920928
OTHER SO	OURCE(S):	MAI	RPAT 121:3560	19	

Title compds. (I; R1, R2 = H, alkyl; Z, Z1 = H, C1, OH, NH2, alkyl, alkoxy, etc.) were prepd. Thus, 2-chloro-1-(1-methylethyl)-7-phenylmethoxy-1H-AΒ benzimidazole (prepn. given) was condensed with 4-(1H-imidazol-4yl)piperidine to give title compd. II. I gave .gtoreq.50% inhibition of serotonin-induced bradycardia at 10.mu.g/kg i.v. in rats.

ΙT 155596-41-1P 155596-42-2P 155596-43-3P 155596-45-5P 155596-47-7P 155596-49-9P 155596-50-2P 155596-51-3P 155596-53-5P 155596-54-6P 155596-55-7P 155596-57-9P 155596-59-1P 155596-60-4P 155596-61-5P 155596-62-6P 155596-64-8P 155596-66-0P 155596-67-1P 155596-68-2P

rgic receptor antagonist)

RN 155596-41-1 CAPLUS

1H-Benzimidazole, 7-chloro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-CNmethylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM

CRN 155596-40-0 CMF C18 H22 C1 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-42-2 CAPLUS

CN 1H-Benzimidazol-7-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 155596-43-3 CAPLUS

CN 1H-Benzimidazol-4-ol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 155596-45-5 CAPLUS

CN 1H-Benzimidazole-7-methanol, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-44-4 CMF C19 H25 N5 O

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-47-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-46-6 CMF C19 H25 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-49-9 CAPLUS

1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methyl-1-(1-methylethyl)-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-50-2 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-4-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 155596-51-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-7-methoxy-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 155596-53-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(octyloxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-52-4 CMF C26 H39 N5 O

$$\begin{array}{c|c} \text{Me-} \left(\text{CH}_2\right) & 7 - 0 & 1 - Pr & H \\ \hline & N & N & N \\ \hline & N & N & N \\ \end{array}$$

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-54-6 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(phenylmethoxy)- (9CI) (CA INDEX NAME)

RN 155596-55-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-7-(phenylmethoxy)-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-54-6 CMF C25 H29 N5 O

CM 2

CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-57-9 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-, ethyl ester, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-56-8 CMF C21 H27 N5 O2

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-59-1 CAPLUS

CN 1H-Benzimidazole, 7-chloro-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-58-0 CMF C19 H24 C1 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4 Double bond geometry as shown.

RN 155596-60-4 CAPLUS

CN 1H-Benzimidazole, 4-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 155596-61-5 CAPLUS

CN 1H-Benzimidazole, 7-methoxy-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 155596-62-6 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-7-(octyloxy)- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me-} (\text{CH}_2) & 7 - 0 & \text{i-Pr} & \text{H} \\ \hline & N & N & \text{Me} \end{array}$$

RN 155596-64-8 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, 3-methylbutyl ester, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-63-7

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-66-0 CAPLUS

CN 1H-Benzimidazole-7-carboxylic acid, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, phenylmethyl ester, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 155596-65-9 CMF C27 H31 N5 O2

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 155596-67-1 CAPLUS

CN 1H-Benzimidazole, 5-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-6-nitro-(9CI) (CA INDEX NAME)

$$\begin{array}{c|c} O_2N & H & H \\ N & N & Me \end{array}$$

RN 155596-68-2 CAPLUS

CN 1H-Benzimidazol-5-amine, 6-chloro-2-[4-(5-methyl-1H-imidazol-4-yl)-1piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} C1 & H & H \\ H_2N & N & Me \end{array}$$

● 2 HC1

ANSWER 42 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:124534 CAPLUS

DOCUMENT NUMBER: 118:124534

TITLE: Preparation of 2-(imidazolylpiperidino)benzimidazoles

and analogs as 5-HT receptor ligands

INVENTOR(S): Jegham, Samir; Defosse, Gerard; Purcell, Thomas;

Schoemaker, Johannes PATENT ASSIGNEE(S): Synthelabo S. A., Fr. SOURCE: Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

EP 507650 A1 19921007 EP 1992-400780 19920323 EP 507650 B1 19960522 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE FR 2674855 A1 19921009 FR 1991-4009 19910403 FR 2674855 B1 19940114 AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402	PA	TENT NO.	KIND I	DATE	APPLICATION NO.	DATE
EP 507650 B1 19960522 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE FR 2674855 A1 19921009 FR 1991-4009 19910403 FR 2674855 B1 19940114 AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402						
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE FR 2674855 A1 19921009 FR 1991-4009 19910403 FR 2674855 B1 19940114 AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402	ΕP	507650	A1 1	19921007	EP 1992-400780	19920323
FR 2674855 Al 19921009 FR 1991-4009 19910403 FR 2674855 Bl 19940114 AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402	EΡ	507650	B1 1	19960522		
FR 2674855 B1 19940114 AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402		R: AT, BE,	CH, DE,	DK, ES, FR,	GB, GR, IT, LI, LU,	MC, NL, PT, SE
AT 138375 E 19960615 AT 1992-400780 19920323 CA 2064924 AA 19921004 CA 1992-2064924 19920402	FR	2674855	A1 :	19921009	FR 1991-4009	19910403
CA 2064924 AA 19921004 CA 1992-2064924 19920402	FR	2674855	B1 :	19940114		
311 1332 2001321 13320102	ΑT	138375	E :	19960615	AT 1992-400780	19920323
	CA	2064924	AA 1	19921004	CA 1992-2064924	19920402
NO 9201281 A 19921005 NO 1992-1281 19920402	NO	9201281	Α :	19921005	NO 1992-1281	19920402
AU 9213989 A1 19921008 AU 1992-13989 19920402	ΑU	9213989	A1 :	19921008	AU 1992-13989	19920402
<u>AU 646332 B2 19940217</u>	AU	64.6332	<u>B2</u>	19940217		

JP 07088378	В4	19950927		
HU 62573	A2	19930528	HU 1992-1116	19920402
US 5280030	Α	19940118	US 1992-862376	19920402
PRIORITY APPLN. INFO.:			FR 1991-4009	19910403

OTHER SOURCE(S): MARPAT 118:124534 GI

$$\begin{array}{c|c} R & & \\ \hline & N & \\ \hline & I & \\ \end{array}$$

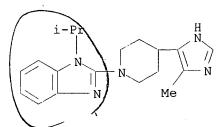
AB Title compds. [I; R = H, F; R1 = H, (cyclo)alkyl; X = O, S, NR3; R3 = H, (cyclo)alkyl, Ph, pyridyl, etc.] were prepd. Thus, 1-(4-pyridyl)-1-propanone was converted in 2 steps to 2-amino-1-(4-pyridyl)-1-propanone which was cyclocondensed with KSCN and the product converted in 2 steps to 4-(5-methyl-1H-imidazol-4-yl)piperidine. The latter was condensed with 2-chloro-1-(1-methylethyl)-1H-benzimidazole (prepn. given) to give I (R = H, R1 = Me, X = NCHMe2). I gave .gtoreq. 50% inhibition of serotonin-induced bradycardia in rats at 10 .mu.g/kg i.v.

IT 146365-53-9P 146365-54-0P 146365-58-4P 146365-60-8P 146365-61-9P 146365-62-0P 146365-64-2P 146365-65-3P 146365-66-4P 146365-67-5P 146365-69-7P 146365-71-1P 146365-72-2P 146365-74-4P 146365-75-5P 146365-77-7P 146365-79-9P 146365-80-2P 146365-82-4P 146365-83-5P 146365-85-7P 146365-86-8P 146365-88-0P 146365-91-5P 146365-93-7P 146365-95-9P 146365-96-0P 146365-97-1P 146365-98-2P 146365-99-3P

146395-69-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as 5-HT receptor ligand)

RN 146365-53-9 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)



RN 146365-54-0 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)-(9CI) (CA INDEX NAME)

RN 146365-58-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CRN 146365-57-3 CMF C21 H21 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-60-8 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-59-5 CMF C23 H33 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

(CA INDEX NAME)

RN 146365-62-0 CAPLUS

CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 146365-64-2 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-63-1 CMF C18 H23 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-65-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)- (9CI) (CA INDEX NAME)

RN 146365-66-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

RN 146365-67-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

RN 146365-69-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methoxyethyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-68-6 CMF C18 H23 N5 O

$$\begin{array}{c|c} \text{MeO-CH}_2\text{-CH}_2 & \text{H} \\ \hline \\ N & N \\ \hline \end{array}$$

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 146365-71-1 CAPLUS

CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-70-0 CMF C19 H23 N5

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-72-2 CAPLUS

CN 1H-Benzimidazole, 5-fluoro-2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 146365-74-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-phenyl-, (2E)-2-butenedioate (2:3) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-73-3 CMF C22 H23 N5

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-75-5 CAPLUS

CN 1H-Benzimidazole, 1-(cyclopropylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 146365-77-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-propyl-, (2Z)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-76-6

CMF C19 H25 N5

CM 2

CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-79-9 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(2-methylpropyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-78-8 CMF C20 H27 N5

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 146365-80-2 CAPLUS

CN 1H-Benzimidazole, 1-(cyclohexylmethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 146365-82-4 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-octyl-, (2E)-2-butenedioate (2:5) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-81-3 CMF C24 H35 N5

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

RN 146365-83-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(3-pyridinylmethyl)- (9CI) (CA INDEX NAME)

RN 146365-85-7 CAPLUS

CN 1H-Benzimidazole, 1-(2-methoxyethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-84-6 CMF C19 H25 N5 O

$$\begin{array}{c|c} \text{MeO-CH}_2 - \text{CH}_2 & \text{H} \\ \hline & \text{N} \\ \hline & \text{N} \\ \hline & \text{N} \\ \end{array}$$

CRN 144-62-7 CMF C2 H2 O4

RN 146365-86-8 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

•2 HCl

RN 146365-88-0 CAPLUS

CN 1H-Benzimidazole, 1-methyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, ethanedioate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-87-9 CMF C17 H21 N5

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN . 146365-91-5 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

RN 146365-93-7 CAPLUS

CN 1H-Benzimidazole, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 146365-95-9 CAPLUS

CN 1H-Benzimidazole, 1-cyclopropyl-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 146365-94-8 CMF C19 H23 N5

$$\begin{array}{c|c} N & & H \\ N & N \\ \end{array}$$

CM 2

CRN 110-17-8 CMF C4 H4 O4

Double bond geometry as shown.

(9CI) (CA INDEX NAME)

RN 146365-97-1 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-ethyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 146365-98-2 CAPLUS

CN 1H-Benzimidazole, 1-(1-methylethyl)-2-[4-[5-(1-methylethyl)-1H-imidazol-4-yl]-1-piperidinyl]- (9CI) (CA INDEX NAME)

RN 146365-99-3 CAPLUS

CN 1H-Benzimidazole, 2-[4-(5-cyclohexyl-1H-imidazol-4-yl)-1-piperidinyl]-1-(1-methylethyl)- (9CI) (CA INDEX NAME)

RN 146395-69-9 CAPLUS

CN 1H-Benzimidazole, 5-fluoro-1-(1-methylethyl)-2-[4-(5-methyl-1H-imidazol-4-yl)-1-piperidinyl]- (9CI) (CA INDEX NAME)

120 ANSWER 43 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:23983 CAPLUS

DOCUMENT NUMBER: 114:23983

TITLE: Preparation of 2-aminopyrimidines as nervous system

agents

INVENTOR(S): Tomino, Ikuo; Takesue, Mitsuyuki; Kihara, Noriaki;

Kitahara, Takumi; Awaya, Akira; Horikomi, Kazutoshi;

Sasaki, Tadayuki; Mizuchi, Akira

PATENT ASSIGNEE(S): Mitsui Petrochemical Industries, Ltd., Japan; Mitsui

Pharmaceuticals, Inc.

SOURCE: Eur. Pat. Appl., 154 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	API	PLICATION NO.	DATE
EP 379806 EP 379806 EP 379806	A2 A3 B1	19900801 19910529 19960410	EP	1989-313595	19891227
R: AT, BE,			B. GR.	IT, LI, LU, NL	. SE
JP 02221275	A2	19900904		1989-41729	19890223
HU 52769	- A2	19900828		1989-6762	19891222
ни 206337	В	19921028			
HU 61288	A2	19921228	HU	1992-1488	19891222
HU 209574	В	19940829			
ни 61293	A2	19921228	ни	1992-1485	19891222
HU 210001	В	19950130			
ни 61313	A2	19921228	HU	1992-1487	19891222
HU 209594	В	19940829			
JP 03014568	A2	19910123	JP	1989-334759	19891226
JP 2744663	B2	19980428			
EP 612746	A1	19940831	EP	1994-105018	19891227
R: DE, FR,	•				
AT 136542	Ε	19960415		1989-313595	19891227
AU 8947329	A1	19900705	AU	1989-47329	19891228
AU 629595	В2	19921008			
CA 2006944	AA	19900629		1989-2006944	19891229
CN 1045390	A	19900919	CN	1989-109731	19891229
CN 1037513	B A	19980225			
US 5147876		19920915		1989-459376	19891229
US 5264435	A	19931123		1992-888726	19920526
CN_1090846	A	19940817	CN	1993-119388	19931021

 JP 1989-41729
 19890223

 HU 1989-6762
 19891222

 EP 1989-313595
 19891227

 US 1989-459376
 19891229

OTHER SOURCE(S): MARPAT 114:23983

Liu

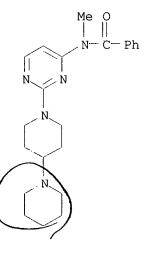
GI

The title compds. [I; R1 = H, alkyl; X = morpholino, (substituted) pyrrolidino, piperidino, azepino, piperazino, tetrahydroquinolinyl, tetrahydroisoquinolinyl, etc.; Y = amino, pyridin-4-ylcarbonyl, piperidinyl-N-carbonyl, phenylcarbamoyl, benzoyl, phthalimido, etc., CH2R2; R2 = H, alkyl, alkoxy, alkylthio, dialkylamino; Z = H, halo, alkyl, alkoxycarbonyl], were prepd. Thus MeNH2 in MeOH was added to 2,4-dichloropyrimidine in CH2Cl2 at 5.degree. followed by stirring for 12 h at room temp. to give 2-chloro-4-methylaminopyrimidine. The latter was heated with 4-phenylpiperidine in BuOH at 130.degree. for 1 h to give 4-methylamino-2-(4-phenylpiperdino)pyrimidine. The latter in THF contg. Et3N was treated with PhCOCl in THF and then with pyridine. The mixt. was stirred 2 days to give 70% title compd. II. I increased twitch tension in rats with crushed sciatic nerves from 33.3% of normal (controls) to 48.1-51.2% at 10-30 ng/kg i.p. daily over 30 d.

IT 131038-69-2P

RN 131038-69-2 CAPLUS

CN Benzamide, N-(2-[1,4'-bipiperidin]-1'-yl-4-pyrimidinyl)-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



2 HCl

20 ANSWER 44 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1989:515198 CAPLUS DOCUMENT NUMBER: 111:115198

Preparation of pyrimidine derivatives for treatment of

neurological disorders

INVENTOR(S):

Awaya, Akira; Horikomi, Kazutoshi; Sasaki, Tadayuki; Kobayashi, Hisashi; Mizuchi, Akira; Nakano, Takuo; Tomino, Ikuo; Araki, Shintaro; Takesu, Mitsuyuki; et

PATENT ASSIGNEE(S):

Mitsui Pharmaceuticals, Inc., Japan; Mitsui

Petrochemical Industries, Ltd.

SOURCE:

Eur. Pat. Appl., 73 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
EP 305184 EP 305184	A1 B1	19890301 19940427	EP 1988-307893 19880825
R: AT, BE,	CH, DE	, ES, FR,	GB, GR, IT, LI, LU, NL, SE
JP 01139572	Ą2	19890601	JP 1988-208190 19880824
JP 2628707	В2	19970709	
CA 1336904	A1	19950905	CA 1988-575504 19880824
WO 8901938	A1	19890309	WO 1988-JP845 19880825
W: HU, KR,	US		
HU 57211	A2	19911128	HU 1988-5376 19880825
HU 205931	В	19920728	
AT 104980	E	19940515	AT 1988-307893 19880825
CN 1032004	A	19890329	CN 1988-106967 19880826
CN 1025617	В	19940810	
CN 1079742	A	19931222	CN 1993-103112 19930317
PRIORITY APPLN. INFO	.:		JP 1987-210170 19870826
			EP 1988-307893 19880825
			CN 1988-106967 19880826

OTHER SOURCE(S): MARPAT 111:115198

GΙ

AΒ Title compds. I $\{X = R1R2N \mid R1 = H, alkyl; R2 = PhCH2CH2, cyclohexyl,$ PhCH2, etc.; R1R2N = heterocyclyl (nine structures are given)], R4S (R4 = alkyl); Y = (mono- or dialkyl-substituted) amino; Z = alkoxycarbonylmethyl, alkoxycarbonyl; YZ = NR5COCH2 [R5 = (alkoxy-substituted)alkyl], CH2NR6COCH2 (R6 = alkyl)} are prepd. Treatment of I (X = Me2CHNH, Y = OH, Z = CH2CO2Et) with POC13 gave 74% I (Y = Cl), which in EtOH was autoclaved with 40% MeNH2/MeOH at 120.degree. to afford 35% I (X = Me2CHNH, YZ = NMeCOCH2). A HCl salt of the latter at 30 mM showed 30.5 .+-. 0.3% (no. of cells having neurites with a length at least two times the diam. of cells/total no. of cells) in mouse neuro-2a cells, vs. 28.5 .+-. 3.0% for 10 mM isaxonine and 2.5

pyrrorraone (ros aq. sorn.) o, cm-cerrurose ca 10, Mg stearate 4, and talc 1 mg.

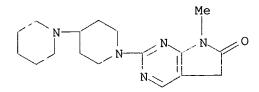
ΙT 122112-92-9P 122113-24-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, for treatment of central and peripheral nerve disorders)

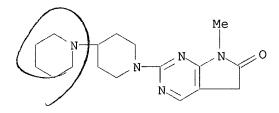
122112-92-9 CAPLUS RN

CN 6H-Pyrrolo[2,3-d]pyrimidin-6-one, 2-[1,4'-bipiperidin]-1'-yl-5,7-dihydro-7-methyl- (9CI) (CA INDEX NAME)



RN 122113-24-0 CAPLUS

CN 6H-Pyrrolo[2,3-d]pyrimidin-6-one, 2-[1,4'-bipiperidin]-1'-yl-5,7-dihydro-7-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L20 ANSWER 45 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1988:437821 CAPLUS

DOCUMENT NUMBER: 109:37821

TITLE: Preparation of 4-[(bicyclic

heterocyclyl)methyl]piperidines and analogs as

antihistaminics

INVENTOR(S): Janssens, Frans E.; Kennis, Ludo E. J.; Hens, Jozef

F.; Torremans, Joseph L. G.; Diels, Gaston S. M.

PATENT ASSIGNEE(S): Janssen Pharmaceutica N. V., Belg.

SOURCE: U.S., 59 pp. Cont.-in-part of U.S. Ser. No. 571,135,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4695575	 А	19870922	US 1985-747754	19850624
ES 539281	A1	19870616	ES 1984-539281	19841231
AU 8537364	A1	19850912	AU 1985-37364	19850107
AU 573673	В2	19880616		
CA 1259609	A1	19890919	CA 1985-471589	19850107
FI 8500079	A	19850710	FI 1985-79	19850108
FI 83867	В	19910531		
FI 83867	С	19910910		
NO 8500085	A	19850710	NO 1985-85	19850108
NO 160849	В	19890227		
NO 160849	С	19890607		
DK 8500089	Α	19850710	DK 1985-89	19850108
JP 60185777	A2	19850921	JP 1985-479	19850108

JP 07068	240 B4	19950726			
HU 36471	A2	19850930	HU	1985-61	19850108
HU 20033	В В	19900528			
ZA 85001	37 A	19860827	ZA	1985-187	19850108
RO 90622	В3	19861210	RO	1985-117252	19850108
SU 13969	64 A3	19880515	SU	1985-3836858	19850108
IL 74018	A1	19880831	IL	1985-74018	19850108
PL 14571	D B1	19881031	PL	1985-251488	19850109
US 48393	74 A	19890613	US	1987-94987	19870910
PRIORITY APPL	N. INFO.:		US 198	34-569369	19840109
			US 198	34-671135	19841113
			US 198	35-747754	19850624

OTHER SOURCE(S):

CASREACT 109:37821

GT

The title compds. [I; 3 of A1-A4 = (un) substituted CH, the 4th = N, (un) substituted CH; B = CH2, O, SO, SO2; R = substituted C1-6 alkyl, alkoxy, alkylthio, amino, pyrrolidinyl, piperidinyl, hexahydroazepinyl, etc.; R1 = H, alkyl, cycloalkyl, (un) substituted aryl, heteroaryl, (hetero) aralkyl; R2 = H, alkyl] and their stereoisomers and acid salts were prepd. as antihistaminics and serotonin antagonists.

1-[(4-Fluorophenyl)methyl]-2-(4-piperidinylmethyl)-1H-benzimidazol-5-ol and PhSCH2CH2Br were refluxed 2 h in Me2CHCH2COMe contg. Na2CO3 to give 27.8% benzimidazole deriv. (II). I inhibited compd. 48/80-induced lethality in rats, caused by histamine release, with ED50 of 0.005-0.16 mg/kg s.c. or orally. I also inhibited gastric lesions caused by simultaneous release of serotonin.

IT 99961-67-8P 100015-27-8P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of, as antihistaminic)

RN 99961-67-8 CAPLUS

CN

1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-2-[[1'-(2-pyrimidinyl)[1,4'-bipiperidin]-4-yl]methyl]-, ethanedioate (9CI) (CA INDEX NAME)

CRN 99961-66-7 CMF C29 H33 F N6

CRN 144-62-7 CMF C2 H2 O4

RN 100015-27-8 CAPLUS

CN 1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-2-[[1'-(1-methyl-4-nitro-1H-imidazol-5-yl)[1,4'-bipiperidin]-4-yl]methyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} N & CH_2 & Me \\ N & CH_2 & N & N \\ \hline \end{array}$$

ANSWER 46 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1986:68861 CAPLUS

DOCUMENT NUMBER:

104:68861

TITLE:

(Piperidinylmethyl) - and (piperidinyloxy)benzimidazole

s and -imidazopyridines

INVENTOR(S):

Janssens, Frans Eduard; Kennis, Ludo Edmond Josephine;

Hens, Jozef Francis; Torremans, Joseph Leo G.; Diels,

Gaston Stanislas M.

PATENT ASSIGNEE(S):

Janssen Pharmaceutica N. V., Belg.

SOURCE:

Eur. Pat. Appl., 140 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 151826	A1	19850821	EP 1984-201851	19841213
EP 151826	R1	19930331		

	R: AT,	BE, CH	H, DE,	FR,	GB,	IT,	LI	, I	U, NL, SE	
AΤ	87626		E	19930	0415		1	ΑT	1984-201851	19841213
ES	539281		A1	19870	0616			ES	1984-539281	19841231
AU	8537364		A1	19850	0912		1	ΑU	1985-37364	19850107
AU	573673		B2	19880	0616					
CA	1259609		A1	19890	0919		(CA	1985-471589	19850107
FI	8500079		Α	19850	0710			FI	1985-79	19850108
FI	83867		В	19910	0531					
FI	83867		С	19910	0910					
NO	8500085		A	19850	0710]	NO	1985-85	19850108
NO	160849		В	19890	0227					
NO	160849		С	19890	0607					
DK	8500089		A	19850	0710		1	DK	1985-89	19850108
JP	60185777		A2	19850	0921		,	JΡ	1985-479	19850108
JP	07068240		B4	19950	0726					
HU	36471		A2	19850	0890]	HU	1985-61	19850108
HU	200338		В	19900	0528					
ZA	8500187		A	19860	0827			ZΑ	1985-187	19850108
RO	90622		В3	1986	1210]	RO	1985-117252	19850108
SU	1396964		A3	19880	0515			SU	1985-3836858	19850108
IL	74018		A1	19880	0831			ΙL	1985-74018	19850108
\mathtt{PL}	145710		В1	19883	1031			$_{ m PL}$	1985-251488	19850109
PRIORITY	APPLN.	INFO.:				Ţ	US :	198	4-569369	19840109
						Ţ	US :	198	4-671135	19841113
						I	EP :	198	4-201851	19841213

GI

The title compds. I (Z-Z3 = CH, or one of Z-Z3 is N and the remainder are CH; Z4 = CH2, O, S, SO, SO2; R = alkyl, aryl-, heteroaryl-, acyl-hydroxy-, aryloxy, heteroaryloxy-, alkoxy-, arylthio-, carbonyl-, carboalkoxy-, cyano-, amino-, ureido-, thioureido-, or guanidinoalkyl, cycloalkyl, alkenyl, arylalkenyl; R1 = H, alkyl; R2 = H, alkyl, cycloalkyl, aryl, heteroaryl, aryl- or heteroarylalkyl), which were prepd., exhibited antihistaminic activity. Thus, a mixt. of 2-(4-MeC6H4CH2NH)C6H4NH2 and Et 1-benzyl-4-piperidineacetimidate hydrochloride in MeOH was refluxed and NH3 was added to give benzimidazole II.

ΙI

IT 99961-67-8P 100015-27-8P

RL: BAC (Biological activity or effector except advance). BCU (Biological

scudy); PKEP (Preparation)

(prepn. and antihistaminic activity of)

RN 99961-67-8 CAPLUS

CN

1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-2-[[1'-(2-pyrimidinyl)[1,4'-bipiperidin]-4-yl]methyl]-, ethanedioate (9CI) (CA INDEX NAME)

CRN 99961-66-7 CMF C29 H33 F N6

CM 2

CRN 144-62-7 CMF C2 H2 O4

RN 100015-27-8 CAPLUS

CN 1H-Benzimidazole, 1-[(4-fluorophenyl)methyl]-2-[[1'-(1-methyl-4-nitro-1H-imidazol-5-yl)[1,4'-bipiperidin]-4-yl]methyl]- (9CI) (CA INDEX NAME)

20 ANSWER 47 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1985:615287 CAPLUS

DOCUMENT NUMBER:

103:215287

TITLE:

Five membered heterocyclic ring containing N-(bicyclic

heterocyclyl)-4-piperidinamines

INVENTOR(S):

Janssens, Frans Eduard; Torremans, Joseph Leo Ghislanus; Hens, Jozef Francis; Van Offenwert,

Theophilus Theresia

PATENT ASSIGNEE(S):

Janssen Pharmaceutica N. V., Belg.

SOURCE:

LANGUAGE:

Eur. Pat. Appl., 76 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

FAMILY ACC. NUM. COUNT:

Page 206

PATENT INFORMATION:

PATENT NO.	KIND	DATE		APPLICATION NO.	DATE
EP 145037	A2	19850619		EP 1984-201326	19840914
EP 145037		19850710			
EP 145037	В1	19890118			
R: AT, BE,	CH, DE	, FR, GB,	IT, L	I, LU, NL, SE	
US 4634704	Α	19870106		US 1984-625343	19840627
CA 1247614	A1	19881227		CA 1984-462540	19840906
AT 40130	E	19890215		AT 1984-201326	19840914
IL 73118	A1	19880331		IL 1984-73118	19840930
RO 90457	В3	19861210		RO 1984-115894	19841004
FI 8403934	Α	19850407		FI 1984-3934	19841005
FI 81797	В	19900831			
FI 81797	С	19901210			
DK 8404784	Α	19850407		DK 1984-4784	19841005
DK 163239	В	19920210			
DK 163239	С	19920629			
NO 8404009	Α	19850409		NO 1984-4009	19841005
NO 160441	В	19890109			
NO 160441	С	19890419			
AU 8433872	A1	19850418		AU 1984-33872	19841005
AU 565884	B2	19871001			
ES 536590	A1	19851116		ES 1984-536590	19841005
JP 61010577	A2	19860118		JP 1984-208394	19841005
JP 07098818	B4	19951025			
ZA 8407847	A	19860528		ZA 1984-7847	19841005
HU 38629	A2	19860630		HU 1984-3771	19841005
HU 207514	В	19930428			
SU 1440346	A3	19881123		SU 1984-3796140	19841005
PL 146228	B1	19890131		PL 1984-249916	19841005
PRIORITY APPLN. INFO.	:			1983-539597	19831006
				1984-625343	
			EP	1984-201326	19840914

OTHER SOURCE(S):

CASREACT 103:215287 For diagram(s), see printed CA Issue.

The title compds. [I; R = H, alkyl; R1 = H, alkyl, thienyl, halothienyl, pyrazinyl, thiazolyl, alkylthiazolyl, imidazolyl, alkylimidazolyl, (un) substituted Ph, alkyl substituted by 1 or 2 of these arom. groups; R2 = H, alkyl, cycloalkyl, alkanoyl, alkoxycarbonyl, (un)substituted Ph; R3 = R4(CH2)nZZ1, R4(CH2)nZ2C(X1)ZZ1, Q; R4 = 5-membered heterocyclyl contg. .gtoreq.1 N atoms, optionally fused to a C6H6 ring; X = (un) substituted CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH, CH:CHN:CH, CH:CHCH:N; X1 = O, S, O2NCH, R5N; R5 = H, alkyl, cyano, NO2, acyl; Z = O, S, R6 N, bond; R6 = H, alkyl, amino, acyl; Z1 = alkylene; Z2 = O, S, R7N, bond; R7 = H, alkyl; n = O-6; m = 0-2] were prepd. Thus, N-(2-nitrophenyl)-2-furanmethanamine was hydrogenated and the diamine condensed with Et 4-isothiocyanato-1piperidinecarboxylate to give thiourea deriv. II. This was cyclized to a benzimidazole deriv. by heating with HgO and S in EtOH, decarboxylated by heating in aq. HBr, and N-alkylated with 4-(chloromethyl)-5-methyl-1Himidazole-HCl to give benzimidazolamine III. The antihistaminic properties of I were demonstrated in rats, where I inhibited the lethality

of compd. 48/80 with ED50 0.005-1.25 mg/kg s.c. or orally, and inhibit gastric lesions in rats caused by the same agent with ED50 0.04-1.25 mg/kg

RN 99137-46-9 CAPLUS

s.c.

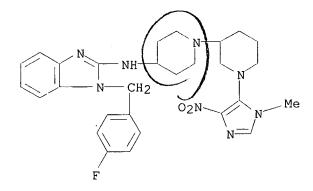
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

⁽prepn. and antihistaminic activity of)

CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-(1-methyl-4-nitro-1H-imidazol-5-yl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 99137-47-0 CAPLUS

CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-(1-methyl-4-nitro-1H-imidazol-5-yl)[1,3'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)



RN 99138-08-6 CAPLUS

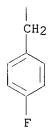
CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-(2-thiazolyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

RN 99138-30-4 CAPLUS

CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl][1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



ANSWER 48 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: DOCUMENT NUMBER: 1985:62135 CAPLUS 102:62135

TITLE:

Thiazolopyridine analogs of nalidixic acid. 2.

Thiazolo[4,5-b]pyridines

AUTHOR(S):
CORPORATE SOURCE:

Leysen, D. C.; Haemers, A.; Bollaert, W.

Dep. Pharm. Sci:, Univ. Antwerp, Wilrijk, B-2610,

Belg.

SOURCE:

Journal of Heterocyclic Chemistry (1984), 21(5),

1361-6

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE:

Journal

Liu

Title compds. I (R = pyrrolidino, piperidino, piperazino, morpholino, AB etc.) were prepd. from NCN:C(SK)SMe and ClCH2COCH2CO2Et. I showed poor in vitro bactericidal activity.

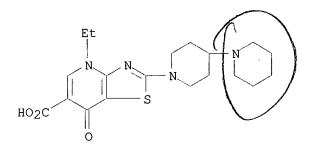
94507-60-5P TT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and bactericidal activity of)

RN 94507-60-5 CAPLUS

Thiazolo[4,5-b]pyridine-6-carboxylic acid, 2-[1,4'-bipiperidin]-1'-yl-4-CN ethyl-4,7-dihydro-7-oxo- (9CI) (CA INDEX NAME)



ANSWER 49 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER:

1984:510801 CAPLUS

DOCUMENT NUMBER:

101:110801

TITLE:

Thiazolopyridine analogs of nalidixic acid. 1.

Thiazolo[5,4-b]pyridines

AUTHOR(S):

Leysen, D. C.; Haemers, A.; Bollaert, W.

CORPORATE SOURCE:

Dep. Pharm. Sci., Univ. Antwerp, Wilrijk, B-2610,

SOURCE:

Journal of Heterocyclic Chemistry (1984), 21(2), 401-6

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 101:110801

GΙ

AB Thiazolopyridinecarboxylates I [R = pyrrolidino, piperidino, 4-methylpiperidino, morpholino, (un) substituted piperazino] were prepd. from the amine and I (R = MeS), which was prepd. in 8 steps from H2NCH2CN.HCl. None of the amino derivs. showed any antibacterial activity in vitro; only I (R = MeS) was slightly active.

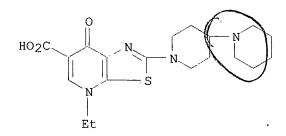
ΙT 91478-67-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and bactericidal activity of)

91478-67-0 CAPLUS RN

Thiazolo[5,4-b]pyridine-6-carboxylic acid, 2-[1,4'-bipiperidin]-1'-yl-4-CN ethyl-4,7-dihydro-7-oxo- (9CI) (CA INDEX NAME)



ANSWER 50 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1984:423473 CAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

101:23473

TITLE:

N-(Bicyclic heterocyclyl)-4-piperidinamines Janssens, Frans Eduard; Torremans, Joseph Leo Ghislanus; Hens, Jozef Francis; Van Offenwert,

Theophilus Theresia J. M.

PATENT ASSIGNEE(S): SOURCE:

Janssen Pharmaceutica N. V., Belg.

Eur. Pat. Appl., 87 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 99139 EP 99139 EP 99139	A2 A3 B1	19840125 19840222 19870211	EP 1983-200832	19830608
R: AT, BE,	CH, DE	, FR, GB, IT	, LI, LU, NL, SE	
US 4556660	Α	19851203	US 1983-487774	19830422
IN 156065	Α	19850504	IN 1983-CA599	19830512
CA 1266267	A1	19900227	CA 1983-429869	19830607
AT 25459	E	19870215	AT 1983-200832	19830608
SU 1297728	АЗ	19870315	SU 1983-3608869	19830627
FI 8302521 .	Α	19840113	FI 1983-2521	19830711
FI 78480	В	19890428		
FI 78480	С	19890810		
DK 8303185	A	19840113	DK 1983-3185	19830711
NO 8302524	A	19840113	NO 1983-2524	19830711
NO 160850	В	19890227		
	****	1000000		
HU 32108	0	19840628	HU 1983-2471	19830711
HU 203550	В	19910828		
AU 8316728	A1	19850117	AU 1983-16728	19830711
AU 563363	В2	19870709		
ZA 8305044	Α	19850227	ZA 1983-5044	19830711

RO 87533 ES 524029 IL 69198 PL 147092 US 4760074 US 4820822 US 33833	B3 A1 A1 B1 A A	19851031 19851116 19870130 19890429 19880726 19890411 19920225	RO 1983-111600 ES 1983-524029 IL 1983-69198 PL 1983-242970 US 1985-800587 US 1987-115272 US 1990-619558	19830711 19830711 19830711 19830712 19851121 19871102 19901129
PRIORITY APPLN. INFO.:		= :	5 1982-397626 5 1983-487774	19820712 19830422
			2 1983-200832	19830608
		US	5 1985-800587	19851121
		US	5 1987-115272	19871102
OTHER SOURCE(S):	CAS	SREACT 101:234	73	

GΙ

AB About 100 antihistaminic title compds. I [R = substituted piperidinyl, substituted alkyl; R1 = H, alkyl; R2 = H, alkyl, cycloalkyl, acyl, aralkyl; R3 = H, (un)substituted alkyl, cycloalkyl, aryl; X = CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH, CH:CHN:CH, CH:CHCH:N] were prepd. Thus N-piperidinylbenzimidazolamine II (R4 = 2-pyrimidinyl)(III) was prepd. from 2-chloropyrimidine and II (R4 = H), which was prepd. from N-piperidinylbenzimidazolamine IV. III had an ED50 of 0.63 mg/kg s.c. against stomach lesions induced by vasoactive amines in rats.

IT 90517-08-1P 90517-12-7P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and antihistamine activity of)

RN 90517-08-1 CAPLUS

CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-(2pyrimidinyl)[1,4'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

90517-12-7 CAPLUS RN

CN 1H-Benzimidazol-2-amine, 1-[(4-fluorophenyl)methyl]-N-[1'-(2pyrimidinyl)[1,3'-bipiperidin]-4-yl]- (9CI) (CA INDEX NAME)

CAPLUS COPYRIGHT 2003 ACS ANSWER 51 OF 58

CESSION NUMBER:

DOCUMENT NUMBER: TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

GI

1983:107258 CAPLUS

98:107258

Preparation of 3-amino-1,2,4-benzothiadiazine 1-oxides

Ross, Donn D.; Lednicer, Daniel

Adria Lab., Columbus, OH, 43216, USA

Journal of Heterocyclic Chemistry (1982), 19(4), 975-6

CODEN: JHTCAD; ISSN: 0022-152X

Journal

LANGUAGE: English

AB Sixteen title compds. I (R = 4-benzylpiperazino, 4-methylpiperazino,

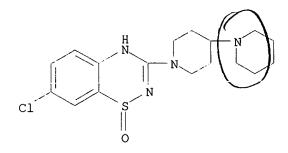
(R = MeS) with amines. I were evaluated as antihypertensive activity found to be inactive.

IT 83794-72-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 83794-72-3 CAPLUS

CN 2H-1,2,4-Benzothiadiazine, 3-[1,4'-bipiperidin]-1'-yl-7-chloro-, 1-oxide (9CI) (CA INDEX NAME)



1∕20 ANSWER 52 OF 58 CAPLUS COPYRIGHT 2003 ACS

ASCESSION NUMBER:

1982:598165 CAPLUS

DOCUMENT NUMBER:

97:198165

TITLE:

2,4-Diamino-6-piperidinyl- and 6-piperazinylpyrimidine

3-oxides, new analogs of minoxidil

AUTHOR(S):

Catto, A.; Lo Verde, G.; Luca, C.; Graziani, G.;

Nardi, D.; Casadio, S.

CORPORATE SOURCE:

CONTOIGNED BOOKED

Div. Ric., Recordati S.p.A., Milan, Italy

SOURCE:

Bollettino Chimico Farmaceutico (1982), 121(1), 16-26

CODEN: BCFAAI; ISSN: 0006-6648

DOCUMENT TYPE:

LANGUAGE:

Journal Italian

OTHER SOURCE(S):

CASREACT 97:198165

GΙ

$$\begin{array}{c|c}
 & \text{H2N} \\
 & \text{ON} \\
 & \text{N}
\end{array}$$

$$\begin{array}{c|c}
 & \text{R}^1 \\
 & \text{R}
\end{array}$$

T H2N

H₂N

ON

II

Title compds. [I; R = Ph, 1-substituted 4-piperidinyl, 1-piperidinyl, CONH2, PhCONH; R1 = OH, H; and RR1 = (CH2)5, SCH2CH2S, OZO (Z = linear or branched alkylene)] and (II; R2 = H, Me, substituted pyrimidinyl, 2-MeOC6H4, 3-ClC6H4, 2-pyridyl) were prepd. from 6-chloro-2,4-pyrimidinediamine 3-oxide (III) and III.cntdot.3-ClC6H4CO2H; I and II exhibited antihypertensive activity. III was treated with 4-phenyl-4-piperidinol to give I (R = Ph, R1 = OH).

IT 83540-14-1P 83540-15-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and antihypertensive activity of)

RN 83540-14-1 CAPLUS

CN 2,4-Pyrimidinediamine, 6,6'-[4,4'-bipiperidine]-1,1'-diylbis-,

3,3'-dioxide (9CI) (CA INDEX NAME)

83540-15-2 CAPLUS RN CN

2,4-Pyrimidinediamine, 6-[1,4'-bipiperidin]-1'-yl-, 3-oxide, dihydrochloride (9CI) (CA INDEX NAME)

2 HCl

ANSWER 53 OF 58 CAPLUS COPYRIGHT 2003 ACS SION NUMBER: 1980:34951 CAPLUS

AUTHOR(S):

CORPORATE SOURCE:

antagonists as antibacterial agents. I

Coats, Eugene A.; Genther, Clara S.; Smith, Carl C. Coll. Pharm., Univ. Cincinnati, Cincinnati, OH, 45267,

SOURCE:

European Journal of Medicinal Chemistry (1979), 14(3),

Searched by Barb O'Bryen, STIC 308-4291

261-70

CODEN: EJMCA5; ISSN: 0009-4374

DOCUMENT TYPE: LANGUAGE: Journal English

The activities of 175 pyrimidines as inhibitors of Streptococcus faecium, Lactobacillus casei, and Pediococcus cerevisiae are reported. In addn., the mode of action according to the ability of folic acid [59-30-3] or folinic acid [58-05-9] to reverse the inhibitory effect of the pyrimidines was detd. The 2,4-diamino substituent pattern appeared to be the dominant but not the sole factor controlling mode of action. Quant. structure-activity relations using regression anal., substituent consts., and indicator variables were developed in an effort to delineate influences on potency and to quant. differences between the test systems. Although arom. and(or) lipophilic substituents at the 5 position of 2,4-diaminopyrimidines enhanced folate reversible inhibition against all 3 systems the derived equations quant. establish differences in and limitations on the extent of this effect.

IT 42389-09-3 71523-75-6

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(bactericidal activity of, structure in relation to)

RN 42389-09-3 CAPLUS

CN 1H-Benzimidazol-2-amine, N-(6-[1,4'-bipiperidin]-1'-yl-4-methyl-2-pyrimidinyl)-5,6-dichloro-(9CI) (CA INDEX NAME)

*** FRAGMENT DIAGRAM IS INCOMPLETE ***

RN 71523-75-6 CAPLUS

CN Pyrimidine, 2-[4-(1-pyrrolidinyl)-1-piperidinyl]-4,6-bis(trichloromethyl)-(9CI) (CA INDEX NAME)

ASO ANSWER 54 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1977:190009 CAPLUS

DOCUMENT NUMBER:

86:190009

TITLE:

3,6-Bis(2-piperidinyl)-2,5-piperazinedione compounds

INVENTOR(S):

Shen, Tsung-Ying; Jensen, Norman P.; Wagner, Arthur F.

PATENT ASSIGNEE(S):

Merck and Co., Inc., USA

SOURCE:

U.S., 12 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4007190	A	19770208	US 1974-481622	19740621
US 3840542	A	19741008	US 1971-201956	19711124
SE 384863	В	19760524	SE 1972-14394	19721107
NL 7215109	A	19730528	NL 1972-15109	19721108
GB 1392249	Α	19750430	GB 1972-53439	19721120
FR 2161025	A1	19730706	FR 1972-41712	19721123
JP 48062773	A2	19730901	JP 1972-117284	19721124
PRIORITY APPLN. INFO.	:		US 1971-201956	19711124
GI				

AΒ Piperazinediones I (R = H, CF3CO, Me, NO; R1 = H, SC6H4NO2-2, COCH2Cl, COCH2NH2, 2-oxotetrahydro-1,3,2-oxazaphosphorinan-2-yl, Me, CH2Ph, CH2O2CCMe3, morpholinomethyl, CF3CO, CO2CH2CC13, NO, CH2CH2OH, CH2CH2C1; R2 = OH, C1, SO3Me, SH, Br, O3SC6H4Me-4) and some related compds. were prepd. from I (R = R1 = H, R2 = C1), obtained by fermentation of Streptomyces griseoluteus. I had antitumor activity against human epidermoid carcinoma in embryonated eggs.

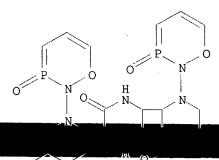
ΙT 62730-64-7P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

Ι

62730-64-7 CAPLUS RN

CN 2,5-Piperazinedione, 3,6-bis[5-chloro-1-(3-oxido-2H-1,2,3-oxazaphosphorin-2-yl)-2-piperidinyl]- (9CI) (CA INDEX NAME)



ANSWER 55 OF 58 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER:

1974:103776 CAPLUS

DOCUMENT NUMBER:

80:103776

TITLE:

Antimalarial drugs. 35. Synthesis and antimalarial effects of 1-(3,4-dichlorophenyl)-3-[4-[(1-ethyl-3piperidyl)amino]-6-methyl-2-pyrimidinyl]guanidine and

related substances

AUTHOR(S):

Elslager, Edward F.; Werbel, Leslie M.; Curry, Ann;

Headen, Nancy; Johnson, Judith

CORPORATE SOURCE:

Res. Dev. Div., Parke, Davis and Co., Ann Arbor, MI,

SOURCE:

Journal of Medicinal Chemistry (1974), 17(1), 75-100

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Structure-antimalarial activity of 1-(3,4-dichlorophenyl)-3-[4-[(1-ethyl-3-AB piperidyl)amino]-6-methyl-2-pyrimidinyl]guanidine (I) [21062-28-2] and 120 analogs prepd. by condensation of the aryl(4-chloro-6-methyl-2pyrimidinyl) guanidine derivs. with the appropriate polyamines is given. Curative activity against Plasmodium berghei infection in mice was shown by 90 compds. in single s.c. doses of 20-640 mg/kg. While 62 compds showed suppressive activity after oral administration, 46 of them were 2-30 times as potent as quinine-HCl [130-89-2]. Strong suppressive activity against P. gallinaceum in chicks was shown by 59 compds.

51387-08-7P 51387-10-1P 51387-56-5P IT

51387-64-5P 51387-69-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. and antimalarial activity of)

51387-08-7 CAPLUS RN

Guanidine, N-(3,4-dichlorophenyl)-N'-[4-methyl-6-[4-(1-pyrrolidinyl)-1-CN piperidinyl]-2-pyrimidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HC1

RN 51387-10-1 CAPLUS

Guanidine, N-(4-[1,4'-bipiperidin]-1'-yl-6-methyl-2-pyrimidinyl)-N'-(3,4-:CN dichlorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HCl

RN 51387-56-5 CAPLUS

CN Guanidine, N-(3,5-dichlorophenyl)-N'-[4-methyl-6-[4-(1-pyrrolidinyl)-1-piperidinyl]-2-pyrimidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)

●2 HCl

RN 51387-64-5 CAPLUS

CN Guanidine, N-[4-bromo-3-(trifluoromethyl)phenyl]-N'-[4-methyl-6-[4-(1-pyrrolidinyl)-1-piperidinyl]-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

RN 51387-69-0 CAPLUS

GN Guanidine, N-[4-chloro-3-(trifluoromethyl)phenyl]-N'-[4-methyl-6-[4-(1-

ANSWER 56 OF 58 CAPLUS COPYRIGHT 2003 ACS

CESSION NUMBER: 1973:526409 CAPLUS

DOCUMENT NUMBER: 79:126409

Antimalarial drugs. 34. Synthesis of TITLE:

5,5'-[[3-(dimethylamino)propyl]imino]bis[3-

(trichloromethyl)-1,2,4-thiadiazole] and related

thiadiazoles as antimalarial agents

Elslager, Edward F.; Johnson, Judith; Werbel, Leslie AUTHOR(S):

Res. Dev. Div., Parke, Davis and Co., Ann Arbor, MI, CORPORATE SOURCE:

USA

Journal of Heterocyclic Chemistry (1973), 10(4), SOURCE:

611-22

CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal LANGUAGE: English

GT For diagram(s), see printed CA Issue.

The condensation of 5-chloro-3-(trichloromethyl)-1,2,4-thiadiazole with AB N, N-dimethyl-1, 3-propanediamine gave 5-[[3-(dimethylamino)propyl]-amino]-3-(trichloromethyl)-1,2,4-thiadiazole and 5,5'-[[3-(dimethylamino)propyl]imino]bis[3-(trichloromethyl)-1,2,-4-thiadiazole] (I), together with 5,5'-[(3-methyl[3-(trichloromethyl)-1,2,4-thiadiazole-5yl]amino]propyl)imino]bis[3-(trichloromethyl)-1,2,4-thiadiazole] which was formed by a displacement of the distal methyl group of I. The antimalarial activity of I prompted the prepn. of 5-amino-3-(trichloromethyl, methyl, and 3,4-dichlorophenyl)-1,2,-4-thiadiazoles and 5,5'-[[(dialkylamino)alkyl]imino]bis[3-(trichloromethyl, methyl, and 3,4-dichlorophenyl)-1,2,4-thiadiazoles] from an amine and the requisite 5-chloro-3-substituted-1,2,4-thiadiazoles, which were prepd. from the appropriate amidine and trichloromethylsulfenyl chloride. 5-[3-[(Diethylamino)methyl]-p-anisidino]-3-(trichloromethyl)-1,2,-4thiadiazole was active against a chloroquine-resistant line of Plasmodium berghei in the mouse. Structure-activity relations against P. berghei in mice and P. gallinaceum in chicks are discussed.

ΙT 50350-57-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 50350-57-7 CAPLUS

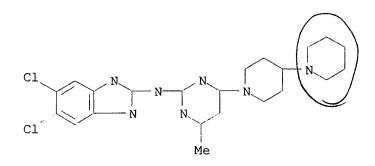
1,4'-Bipiperidine, 1'-[3-(trichloromethyl)-1,2,4-thiadiazol-5-yl]- (9CI) CN (CA INDEX NAME)

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Liu
     ANSWER 57 OF 58 CAPLUS COPYRIGHT 2003 ACS
 CCESSION NUMBER:
                          1973:478734 CAPLUS
DOCUMENT NUMBER:
                          79:78734
TITLE:
                          Synthesis and antimalarial effects of
                          5, 6-dichloro-2-[(4-[[4-(diethylamino)-1-
                         methylbutyl]amino]-6-methyl-2-
                         pyrimidinyl)amino]benzimidazole and related
                         benzimidazoles and 1H-imidazo[4,5-b]pyridines
AUTHOR(S):
                         Werbel, Leslie M.; Curry, Ann; Elslager, Edward F.;
                         Hess, Carolyn
CORPORATE SOURCE:
                         Res. Dev. Div., Parke, Davis and Co., Ann Arbor, MI,
                         USA
SOURCE:
                          Journal of Heterocyclic Chemistry (1973), 10(3),
                          363-82
                          CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE:
                          Journal
LANGUAGE:
                         English
GI
     For diagram(s), see printed CA Issue.
AΒ
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IT

Fifty-five 2-[[4-[[(dialkylamino)alkyl]amino] - 6 - methyl - 2 pyrimidinyl]amino]benzimidazoles were prepd. in 3-88% yields by the condensation of the requisite 2-[(2-benzimidazolyl)amino]-4-chloro-6methylpyrimidine with the appropriate polyamine in EtOH-HCl or neat with excess amine contg. KI. The 2-[(2-benzimidazolyl)amino]-6-methyl-4pyrimidinol precursors, obtained in 11-51% yields by cyclization of 2-(cyanoamino)-4-hydroxy-6-methylpyrimidine with a suitably substituted o-phenylenediamine, were chlorinated with POC13 to give the intermediate 2-[(2-benzimidazolyl)amino]-4-chloro-6-methylpyrimidines (27-99%). of 5,6-dichloro-2-[[4-[[4-(diethylamino)-1-methylbutyl]amino]-6-methyl-2pyrimidinyl]amino]benzimidazole with m-chloroperbenzoic acid gave the distal N4'-oxide (19%). Fusion of 2,3-diaminopyridine with 2-(cyanoamino)-4-hydroxy-6-methylpyrimidine provided 2-[(4-hydroxy-6methyl-2-pyrimidinyl)amino]-1H-imidazo[4,5-b]pyrimidine (30%), which upon chlorination with POC13 (63%) followed by amination with N, N-diethylethylenediamine afforded 2-[4-[[2-(diethylamino)ethyl]amino]-6methyl-2-pyrimidinyl]-1H-imidazo[4,5-b]pyridine (8%). Thirty-eight 2-[(4-amino-6-methyl-2-pyrimidinyl)amino]benzimidazoles possessed curvative activity against Plasmodium berghei at single subcutaneous doses ranging from 20-640 mg/kg. Orally, 31 compds. exhibited suppressive activity against P. berghei comparable with or superior to the reference drugs 1-(p-chlorophenyl)-3-[4-[[2-(diethylamino)ethyl]amino]-6-methyl-2pyrimidinyl]guanidine (I) and quinine-HCl while 12 of them were 5 to 28 times as potent as I and quinine-HCl. Eight compds. also displayed strong suppressive activity against P. gallinaceum in chicks. 5,6-Dichloro-2-[[4-[2-(diethylamino)ethyl]amino]-6-methyl-2-pyrimidinyl]benzimidazole showed marked activity against a cycloquanil-resistant line of P. berghei, and the most promising member of the series, i.e. 5,6-dichloro-2-[[4-[[4-(diethylamino)-1-methylbutyl]amino]-6-methyl-2pyrimidinyl]amino]benzimidazole (I), was designated for preclinical toxicol. studies and clin. trial. Structure-activity relations are discussed. 42389-09-3P

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RL: SPN (Synthetic preparation); PREP (Preparation)
        (prepn. of)
RN
     42389-09-3
                 CAPLUS
CN
     1H-Benzimidazol-2-amine, N-(6-[1,4'-bipiperidin]-1'-yl-4-methyl-2-
     ovrimidinyl) –5, 6-dichloro– (9GI) – (CA-INDEX NAME)
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*** FRAGMENT DIAGRAM IS INCOMPLETE ***

ANSWER 58 OF 58 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1971:141881 CAPLUS

DOCUMENT NUMBER: 74:141881

s-Triazine derivatives TITLE:

INVENTOR(S): Nakanishi, Michio; Taira, Suehisa

Yoshitomi Pharmaceutical Industries, Ltd. PATENT ASSIGNEE(S):

SOURCE: Jpn. Tokkyo Koho, 4 pp.

CODEN: JAXXAD

DOCUMENT TYPE:

Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46004171	B4	19710202	JР	19680213

For diagram(s), see printed CA Issue. GΙ

I, useful as tranquilizers, cholesterol-lowering agents, and AB antiinflammatants, are manufd. A mixt. of 6.8 g 2-methoxy-4-dimethylamino-6-chloro-s-triazine, 8.8 g 4-carbamoyl-4-piperi-dinopiperidine, 160 ml C6H6, 120 ml Me2CO, and 4 g NEt is refluxed 9 hr to give 10 g I (R1 = OMe, R2 = NMe2, R3 = carbamoyl, R4 = piperidino), m. 116-19.degree. (aq. MeOH). Similarly prepd. are I (R1, R2, R3, R4, m.p., and % yield given):, OMe, NMe2, CN, Ph, 161-2.degree., 84; NMe2, NMe2, carbamoyl, NMe2, 181-2.degree.; 74; NMe2, NMe2, Ac, Ph, 131-2.degree., 75; SMe, NMe2, carbamoyl, piperidino, 126-8.degree., 90; OEt, NHEt, carbamoyl, piperidino, 196.5-8.5.degree.. 83; NHEt, NEt2, carbamoyl, piperidino, 143-5.degree., 78; NH2, NHBu, carbamoyl, piperidino, 200-3.degree., 50; Cl, Cl, carbamoyl, piperidin, 185-8.degree., 57; Cl, 4-carbamoyl-4piperidinopiperidino, carbamoyl, piperidio, 209-11.degree., 61; 4-carbamoyl-4-piperidinopiperidino, 4-carbamoyl-4-piperidinopiperidinom carbamoyl, piperidino, 310-13.degree., 62; OMe, piperidino, OH, m-CF3C6H4, 130-3.degree., 66; OH, morpholino, OEt, Ph, 270-2.degree., 62: NHEt, 4-methyl-1-piperazinyl, OH, Ph, -(hydrochloride m. 240-2.degree.), 50.

31993-72-3P 31993-73-4P 31993-74-5P TT 32004-85-6P 32004-87-8P 32043-56-4P

32043-57-5P 32151-74-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

31993-72-3 CAPLUS RN

[1,4'-Bipiperidine]-4'-carboxamide, 1'-(4,6-dichloro-s-triazin-2-yl)-CN-(8CI) (CA INDEX NAME)

RN 31993-73-4 CAPLUS

CN [1,4'-Bipiperidine]-4'-carboxamide, 1',1'''-(6-chloro-s-triazine-2,4-diyl)bis-(8CI) (CA INDEX NAME)

RN 31993-74-5 CAPLUS

CN [1,4'-Bipiperidine]-4'-carboxamide, 1',1''',1''''-(s-triazine-2,4,6-triyl)tris- (8CI) (CA INDEX NAME)

RN 32004-85-6 CAPLUS

CN [1,4'-Bipiperidine]-4'-carboxamide, 1'-[4-(dimethylamino)-6-methoxy-s-triazin-2-yl]- (8CI) (CA INDEX NAME)

RN 32004-87-8 CAPLUS
CN [1,4'-Bipiperidine]-4'-carboxamide, 1'-[4-(dimethylamino)-6-(methylthio)-s-triazin-2-yl]- (8CI) (CA INDEX NAME)

RN 32043-56-4 CAPLUS
CN [1,4'-Bipiperidine]-4'-carboxamide, 1'-[4-(diethylamino)-6-(ethylamino)-s-triazin-2-yl]- (8CI) (CA INDEX NAME)

Et2N N NHEt
N N
O

RN 32043-57-5 CAPLUS CN [1,4'-Bipiperidine]-4'-carboxamide, 1'-[4-amino-6-(butylamino)-s-triazin-2-yl]- (8CI) (CA INDEX NAME)

RN 32151-74-9 CAPLUS

CN [1,4'-Bipiperidine]-4'-carboxamide, 1'-[4-ethoxy-6-(ethylamino)-s-triazin-2-y1]- (8CI) (CA INDEX NAME)

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L17		STR	
L19	484	SEA	FILE=REGISTRY SUB=L15 SSS FUL L17
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